

For the Record

G Protein-Coupled Odorant Receptors: from sequence to structure

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Figure 1 and Figure 2

Supplementary material: PDB files of hOR₁G₁ models and sequences alignment between ORs and GPCRs in fasta format.

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Abstract

Odorant receptors (ORs) are the largest sub-family within Class-A G Protein-Coupled Receptors (GPCRs). No experimental structural data of any OR is available to date and atomic-level insights are likely to be obtained by means of molecular modeling. In this article, we critically align sequences of ORs with those GPCRs for which a structure is available. Here, an alignment consistent with available site-directed mutagenesis data on various ORs is proposed. Using this alignment, the choice of the template is deemed rather minor for identifying residues that constitute the wall of the binding cavity or those involved in G-protein recognition.

Keywords: odorant receptor, sequence, structure, binding cavity, olfactory

Introduction

Odorant molecules are perceived by mammals through extraordinary subtle mechanisms, notably involving odorant receptors (ORs).⁽¹⁾ In human, the family of genes coding for ORs is one of the largest, as it represents more than 2% of our genome. At the protein level, ORs account for more than 4% of our proteome and constitute the largest sub-family of Class-A (or Rhodopsin like) G Protein-Coupled Receptors (GPCR). GPCRs are seven-transmembrane domain (7 TM) proteins that transmit extracellular signals across the plasma membrane. Although structures of some Class-A members have been experimentally solved, no experimental structure is to date available for any OR. For now, molecular modeling appears as the only way to propose atomic-level mechanisms of either ligand selectivity or receptor activation for these proteins on a structural basis. Models can either be made *ab-initio* or based on sequence homology with respect to known experimental structures.^(2; 3) In both cases, sequence alignment between the candidate receptor and the experimentally determined templates is undoubtedly the crucial step.

Within the motifs that represent hallmarks of Class-A GPCR, most are shared by ORs,⁽⁴⁾ suggesting rather similar activation mechanism upon ligand binding and similar signal transduction. It follows that templates available for now may be sufficiently adapted to recover trustable OR models. Nevertheless, ORs conserved motifs are either broader or different than those observed in Class-A GPCRs. These motifs within OR sequences are as follows, with those shared by non-olfactory Class-A GPCRs written in bold:

- **GN** in Trans-Membrane domain 1 (TM₁),

- LHxPMYFFLxxLSxxD in TM₂,
- MAYD(E)RYVAICxPLxY in TM₃,
- SY in TM₅,
- KAFSTCxSH in TM₆,
- PxLNPxIYSLNR in TM₇.

Although TM₁, 2, 3 and TM₇ motifs are sufficiently conserved to lead to unambiguous alignments, TM₄, 5 and 6 cases are more subtle and require additional data, ideally brought by experiments. An accurate sequence alignment will provide extremely useful information on residues forming the binding cavity or involved in receptor activation. Based on a thorough alignment and analysis of conservation thresholds between mouse and human OR, such information was inferred and allowed identifying residues that contribute to ligand binding.⁽⁵⁾ In this article, we revisit and update this data by recapitulating available experimental results published so far. We combine information gained by sequence alignments and *in vitro* data using site-directed mutagenesis to provide an optimal sequence alignment consistent with experiment. In a second step, we use this alignment to assess the choice of the template for building a representative OR and to confirm that site-directed mutagenesis data can be interpreted on a structural basis using this model.

Results

Olfactory and non-Olfactory GPCR alignment

Alignments of TM₁, TM₂, and TM₃ sequences are straightforward as the conserved motifs in each of these TM domains are clearly identified between ORs and available GPCR structures. Figure 1 recapitulates the alignment for ORs with available site-

directed mutagenesis data. In TM₁, the typical Class-A GPCR 'GN' motif is conserved at 90 and 99% within human and mouse OR, respectively.(6; 7) Here, residue N is referenced as N¹⁻⁵⁰, according to the Ballesteros-Weinstein notation.(8) In TM₂, the PMY motif found in ORs has no equivalence in any other Class-A GPCRs but the highly conserved LSxxD in ORs is straightforward to align with the highly conserved GPCR LAxAD (D²⁻⁵⁰) motif. The alignment of TM₃ is the easiest case because of the presence of both the D(E)RY motif (R³⁻⁵⁰) involved in the activation of all Class-A GPCRs, and the cysteine residue C³⁻²⁵ involved in the cysteine bridge with the Extracellular Loop 2 (ECL₂). Within TM₄, the tryptophan residue (W⁴⁻⁵⁰) strongly conserved in non-olfactory GPCRs is also present in ORs, with conservation of 58% and 50% within human and mouse ORs, respectively. This residue provides a good anchoring point for fitting TM₄ sequences of ORs and non-olfactory GPCRs. Before considering TM₅ and TM₆, we focus on TM₇, where the NPxxY (P⁷⁻⁵⁰) motif is conserved in all Class-A GPCRs making easy the alignment of TM₇. In TM₅, the highly conserved proline (P⁵⁻⁵⁰) in Class-A GPCR(8) is moderately represented in OR (conservation of 39% and 37%, in human and mouse ORs, respectively). However, the tyrosine residue of the 'SY' (Y⁵⁻⁵⁸) motif is strongly conserved in both GPCR sub-families (100% and 93% in mouse and human ORs, respectively). Taking this tyrosine residue as a reference assesses the accurate alignment of TM₅ and remains consistent with of the position of the proline residue (P⁵⁻⁵⁰) between OR and sequences associated to available X-ray structures.

TM₆ is even much trickier, as this TM lacks the CWxP (P⁶⁻⁵⁰) motif considered as the TM₆ hallmark of Class-A GPCR. In TM₆, ORs sequences show a highly conserved KAFSTCxSH motif for which the equivalence with non-olfactory GPCR is not obvious.

A 'KA' motif can however be identified in non-olfactory GPCRs, and a 29% conserved Proline in human ORs is aligned with the P^{6.50}, assessing our alignment.

Intra and extra-cellular loops are also of importance for the function of a receptor. Here, we notably focus on ECL₂ since it is involved in ligand binding and receptor structure. A disulfide bridge between ECL₂ and C^{3.25} at the top of TM₃ is common to all Class-A GPCRs. In ORs, three cysteines are present in ECL₂ domain and one at the top of TM₃, suggesting the presence of two disulfide bridges. Indeed, in addition to the canonical S-S bridge (between C₉₇^{3.25} and C₁₇₉^{ECL₂}), identification of an additional S-S bridge within ECL₂ (between C₁₆₉^{ECL₂} and C₁₈₉^{ECL₂}) was characterized by mass spectrometry in hOR_{1D2}.⁽⁹⁾ Forcing the alignment of the canonical cysteine bridge between ORs and non-olfactory GPCRs (C₉₇^{3.25}-C₁₇₉^{ECL₂}) provides a crucial data for the optimal alignment of ECL₂.

This sequence alignment does not contain any gap within TM domains. The only gaps are set within loop sequences, consistent with a larger sequence and structure variability within loops with respect to the bundle.⁽¹⁰⁾ Based on the alignment of Figure 1, we next address the choice of template used for building a structural model consistent with site-directed mutagenesis data.

3D structure and comparison with experimental data

Here, we analyze the accuracy of the alignment by translating it into atomic-level models. Five models of the human OR_{1G1} are built either with Modeller⁽¹¹⁾ using different receptor structures as templates (Bovine Rhodopsin, Human β 2-adrenergic, Human Chemokine-1, and a combination of them three) or by means of the *ab initio*

GENSeMBLE (GPCR Ensemble of Structures in Membrane BiLayer Environment) complete sampling method.(3; 12; 13)

Figure 2 gathers information inferred from these models. Focusing on the helical TM domains, all structures are similar with C α Root Mean Square deviations (RMSd) lower than 3 Å (see Figure 2C) between pairs of models, at the exception of that based on the chemokine receptor. The latter exhibits a RMSd value of ~ 6 Å with respect to other structures. The main difference when using the Chemokine receptor template appears for TM1, TM2 and TM7 which show a small deviation with respect to other templates. This difference has however a small influence on the position of residues lining the binding cavity. Focusing on eight of them (104^{3.32}, 108^{3.36}, 202^{5.42}, 206^{5.46}, 252^{6.48}, 256^{6.52}, 260^{6.56}, and 279^{7.42}, *vide infra*), we compute a C α RMSd of 3.2 Å between the multi-template model and that build with the Chemokine receptor. Importantly, despite these tertiary structure weak dissimilarities, all models exhibit similar secondary folds. Furthermore, residues that constitute the wall of the binding cavity and those involved in the signaling pathway through a contact with the G-protein appear to be located in the same regions.(14; 15) As observed in all Class-A GPCRs, the canonical binding site is made up by residues belonging to TM3, TM5, TM6, and TM7.(5) Inspection of TM3 3D-structure shows that side-chains of residues 109^{3.37}, 108^{3.36}, 105^{3.33}, and 104^{3.32} participate to the binding cavity. This is consistent with a modification of the odorant response when tested in mutants expressed *in vitro* (Figure 1). In the models, residue 112^{3.40} is located under the binding cavity. Its non-synonymous mutation is consistent with a general decrease of the OR response to odorants in hOR1G1 (Ala \rightarrow Ser),(16), mOR-EG (Ser \rightarrow Ala or Val),(17; 18), mOR42-3 (Val \rightarrow Ser),(19) and hOR1A1 (Ser \rightarrow Ala).(20)

TM4 would contribute to lining the binding cavity through one or two residues located at the top of the helix. Mutations at these positions (4.55 and 4.56) however do not affect responsiveness of the receptor,(20) suggesting that this contribution is deemed rather minor.

Amino-acids belonging to TM5 largely contribute to define the binding cavity. Side-chains of residues 199^{5.39}, 202^{5.42}, 206^{5.46} point inward the cavity, consistent with a modification of the response to odorants upon mutation on mOR-EG(17; 18) and mOR42-3 *in vitro*.(19) In mOR-EG, mutations at residues located deeper into the structure (5.50 and 5.51) also affected responsiveness of the receptor when stimulated by odorants. They would rather contribute to stabilize the receptor since they correspond to positions within the sequence showing a larger conservation (Pro at ~40% at position 5.50, Phe/Leu at 64% at 5.51, and Ile at ~85% at 5.61) than hypervariable residues found within the cavity.(5) The main contribution of TM6 to the function of the receptor stems not only from residues within the binding cavity but also from others involved in the activation. The highly conserved aromatic residue at position 6.48 (Y/F252 is conserved at ~95%) is located at the bottom of the binding cavity. One, two, and three helix turns above, residues 255^{6.51}-256^{6.52}, 259^{6.55}-260^{6.56}, and 263^{6.59}-264^{6.60} are pointing to the cavity. These positions are in line with *in vitro* data on mOR-EG,(17; 18) mOR42-3,(19) hOR2AG1,(21) hOR1A1, and hOR1A2, where the response of the receptor upon odorant stimulation is modified by mutations at these positions.(20) Deeper into the intracellular part, the 'KAFSTCASH' is likely to take part in the contact with the G protein upon activation, as shown on mOR-EG,(14). The contribution of TM7 to the binding pocket is mostly coming from residue 279^{7.42}, consistent with its impact on ligand recognition on several OR *in vitro*.(17; 20; 21)

Conclusion

We have built an alignment of mammalian Odorant Receptor sequences that recapitulates available experimental data obtained by site-directed mutagenesis. More particularly, the debatable alignment of TM5 and TM6 are now consistent with data provided by several other studies. The effect of the template in the case of homology-based approaches is deemed rather minor if one is interested in identifying residues that belong to the binding cavity or those potentially involved in the coupling of a G-protein to the OR. These data provide a robust starting point for initiating mechanistic or structural studies involving odorant receptor and their complexes with ligands.

Materials and Methods

The alignment was performed with Jalview.(22) Sequences have been firstly aligned with ClustalW prior to manual adjustments. Tools of GPCRDB have been used to obtain a snakeplot. 3D models have been built either with Modeller(11) by homology modeling using a mono- or multi-template (Bovine Rhodopsin PDB:1U19, Human β 2-adrenergic PDB:2RH1 and Human Chemokine-1 PDB:2LNL) or by an *ab initio* protocol with the GEnSeMBLE (GPCR Ensemble of Structures in Membrane BiLayer Environment) complete sampling method(12). Visual analysis, images, and RMSd calculations have been performed with VMD.(23)

Acknowledgments

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Figure 1. Alignment of ORs with some G Protein-Coupled Receptors (GPCRs). Only ORs for which site-directed mutagenesis combined to molecular modeling was available are considered. Residues commonly conserved between ORs and non-OR GPCRs (dark blue), specific to ORs only (yellow), and specific to non-OR GPCRs only (light blue) are identified. Residues which experimentally modify the OR response upon odorant stimulation are shown in red, while those which do not change the OR response are in gray. Each transmembrane (TM) domain is boxed and the Ballesteros-Weinstein numbering scheme is indicated for Class-A GPCR. An alternative numbering scheme is proposed for the TM₅ and TM₆ of OR, which takes into account for highly conserved residues within these TMs (orange, italics). Site-directed mutagenesis data are reported for the Human (h) OR_{1A1} and hOR_{1A2},⁽²⁰⁾ hOR_{1G1},⁽²⁴⁾ hOR_{2AG1},⁽²¹⁾ Rat (r) and Mouse (m) I₇,⁽²⁵⁾ mOR-EG,^(17; 18) mOR₄₂₋₃,⁽¹⁹⁾ and mOR₂₄₄₋₃.⁽²⁶⁾ OR sequences are aligned with sequences of Bovine Rhodopsin (bRho), human β ₂-adrenergic (h β ₂AR), human Adenosine-2A (hA₂A), and human Chemokine-1 (CXCR1) receptors.

Figure 2. Residues governing the function of mammalian ORs projected onto the sequence and the structure of hOR₁G₁. A, snakeplot of the OR sequence with residues involved in odorant contact in green and those involved in the OR activation through a contact with the G Protein in purple. Residues in light green will be strongly in contact with the odorant, those in dark green contribute to the wall of the binding cavity. Number 50 residue of the Ballesteros-Weinstein notation are circled in blue. The cysteine bridges are also indicated. B, position of important residues on the structure of the receptor, with some Ballesteros-Weinstein notations. C, C- α positions Root Mean Square deviation (in Å) between models build using Bovine Rhodopsin (1U19), β 2-adrenergic (2RH1), Chemokine-1 (2LNL) receptor, or a multi-template (Multi) of the three receptors cited above, or an *ab initio* model.

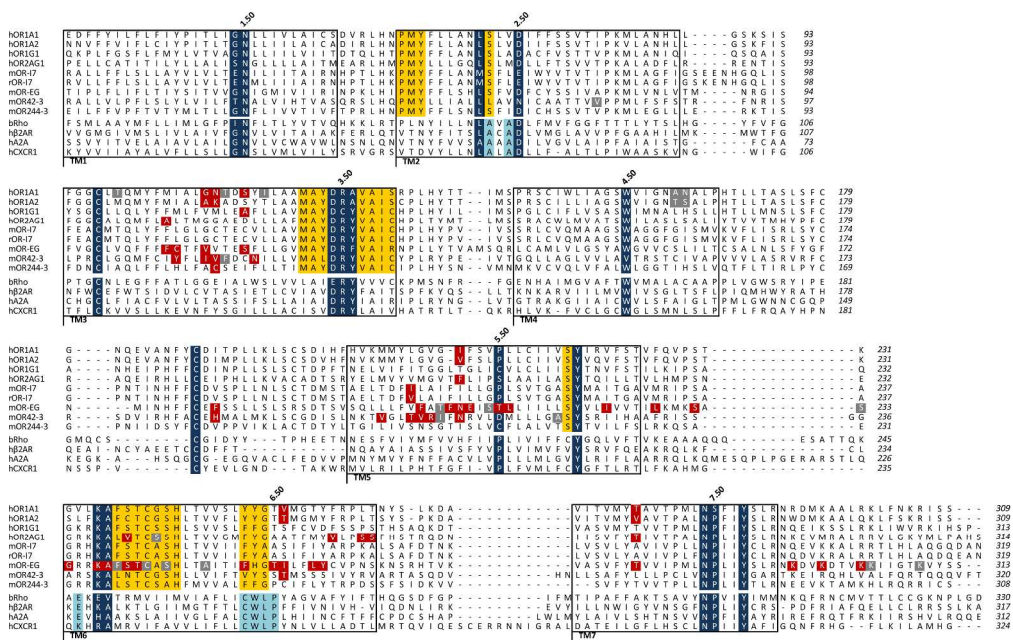


Figure 1. Alignment of ORs with some G Protein-Coupled Receptors (GPCRs). Only ORs for which site-directed mutagenesis combined to molecular modeling was available are considered. Residues commonly conserved between ORs and non-OR GPCRs (dark blue), specific to ORs only (yellow), and specific to non-OR GPCRs only (light blue) are identified. Residues which experimentally modify the OR response upon odorant stimulation are shown in red, while those which do not change the OR response are in gray. Each transmembrane (TM) domain is boxed and the Ballesteros-Weinstein numbering scheme is indicated for Class-A GPCR. An alternative numbering scheme is proposed for the TM5 and TM6 of OR, which takes into account for highly conserved residues within these TMs (orange, italics). Site-directed mutagenesis data are reported for the Human (h) OR1A1 and hOR1A2,(20) hOR1G1,(24) hOR2AG1,(21) Rat (r) and Mouse (m) 17,(25) mOR-EG,(17; 18) mOR42-3,(19) and mOR244-3.(26) OR sequences are aligned with sequences of Bovine Rhodopsin (bRho), human β 2-adrenergic (h β 2AR), human Adenosine-2A (hA2A), and human Chemokine-1 (CXCR1) receptors.

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Accepted

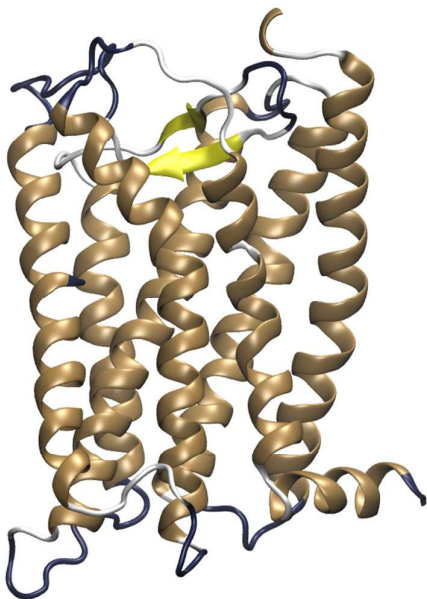


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SUPPORTING INFORMATION FOR
G Protein-Coupled Odorant Receptors: from sequence to structure

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PDB and structure of OR1G1 built by homology modeling using rhodopsin as a template (PDB Id 1U19)



ATOM	1	N	MET	1	49.739	2.646	29.912	1.00	32.18	N
ATOM	2	CA	MET	1	50.890	3.544	29.688	1.00	32.18	C
ATOM	3	CB	MET	1	51.851	3.532	30.891	1.00	32.18	C
ATOM	4	CG	MET	1	51.243	4.098	32.176	1.00	32.18	C
ATOM	5	SD	MET	1	52.431	4.307	33.537	1.00	32.18	S
ATOM	6	CE	MET	1	52.855	2.547	33.675	1.00	32.18	C
ATOM	7	C	MET	1	51.651	3.108	28.484	1.00	32.18	C
ATOM	8	O	MET	1	51.081	2.902	27.414	1.00	32.18	O
ATOM	9	N	GLU	2	52.976	2.952	28.641	1.00126.56		N
ATOM	10	CA	GLU	2	53.791	2.579	27.529	1.00126.56		C
ATOM	11	CB	GLU	2	55.299	2.747	27.788	1.00126.56		C
ATOM	12	CG	GLU	2	55.723	4.203	27.993	1.00126.56		C
ATOM	13	CD	GLU	2	55.587	4.930	26.663	1.00126.56		C
ATOM	14	OE1	GLU	2	55.612	4.244	25.606	1.00126.56		O
ATOM	15	OE2	GLU	2	55.457	6.183	26.686	1.00126.56		O
ATOM	16	C	GLU	2	53.543	1.141	27.215	1.00126.56		C
ATOM	17	O	GLU	2	53.251	0.335	28.097	1.00126.56		O
ATOM	18	N	GLY	3	53.639	0.801	25.916	1.00108.20		N
ATOM	19	CA	GLY	3	53.462	-0.546	25.464	1.00108.20		C
ATOM	20	C	GLY	3	54.561	-1.355	26.068	1.00108.20		C
ATOM	21	O	GLY	3	54.374	-2.514	26.426	1.00108.20		O
ATOM	22	N	LYS	4	55.763	-0.765	26.171	1.00	96.51	N
ATOM	23	CA	LYS	4	56.861	-1.470	26.761	1.00	96.51	C
ATOM	24	CB	LYS	4	58.234	-0.858	26.430	1.00	96.51	C
ATOM	25	CG	LYS	4	59.419	-1.671	26.957	1.00	96.51	C
ATOM	26	CD	LYS	4	60.763	-1.256	26.352	1.00	96.51	C
ATOM	27	CE	LYS	4	61.951	-2.064	26.875	1.00	96.51	C

ATOM	28	NZ	LYS	4	62.198	-1.737	28.296	1.00	96.51	N
ATOM	29	C	LYS	4	56.661	-1.393	28.238	1.00	96.51	C
ATOM	30	O	LYS	4	55.726	-0.747	28.707	1.00	96.51	O
ATOM	31	N	ASN	5	57.521	-2.084	29.011	1.00155.44		N
ATOM	32	CA	ASN	5	57.388	-2.045	30.437	1.00155.44		C
ATOM	33	CB	ASN	5	58.503	-2.798	31.185	1.00155.44		C
ATOM	34	CG	ASN	5	58.330	-4.287	30.915	1.00155.44		C
ATOM	35	OD1	ASN	5	57.246	-4.840	31.093	1.00155.44		O
ATOM	36	ND2	ASN	5	59.427	-4.954	30.466	1.00155.44		N
ATOM	37	C	ASN	5	57.470	-0.608	30.817	1.00155.44		C
ATOM	38	O	ASN	5	58.081	0.195	30.113	1.00155.44		O
ATOM	39	N	LEU	6	56.822	-0.236	31.936	1.00170.02		N
ATOM	40	CA	LEU	6	56.809	1.146	32.300	1.00170.02		C
ATOM	41	CB	LEU	6	55.659	1.509	33.264	1.00170.02		C
ATOM	42	CG	LEU	6	55.362	0.475	34.376	1.00170.02		C
ATOM	43	CD1	LEU	6	54.779	-0.823	33.794	1.00170.02		C
ATOM	44	CD2	LEU	6	56.575	0.222	35.285	1.00170.02		C
ATOM	45	C	LEU	6	58.108	1.496	32.942	1.00170.02		C
ATOM	46	O	LEU	6	58.148	2.077	34.025	1.00170.02		O
ATOM	47	N	THR	7	59.221	1.181	32.256	1.00109.45		N
ATOM	48	CA	THR	7	60.490	1.559	32.790	1.00109.45		C
ATOM	49	CB	THR	7	61.656	1.007	32.011	1.00109.45		C
ATOM	50	OG1	THR	7	62.873	1.324	32.669	1.00109.45		O
ATOM	51	CG2	THR	7	61.652	1.574	30.581	1.00109.45		C
ATOM	52	C	THR	7	60.524	3.050	32.752	1.00109.45		C
ATOM	53	O	THR	7	60.957	3.701	33.702	1.00109.45		O
ATOM	54	N	SER	8	60.035	3.628	31.639	1.00194.29		N
ATOM	55	CA	SER	8	60.001	5.051	31.501	1.00194.29		C
ATOM	56	CB	SER	8	61.107	5.614	30.592	1.00194.29		C
ATOM	57	OG	SER	8	62.381	5.384	31.176	1.00194.29		O
ATOM	58	C	SER	8	58.692	5.396	30.874	1.00194.29		C
ATOM	59	O	SER	8	58.018	4.544	30.297	1.00194.29		O
ATOM	60	N	ILE	9	58.295	6.674	30.997	1.00297.21		N
ATOM	61	CA	ILE	9	57.056	7.138	30.448	1.00297.21		C
ATOM	62	CB	ILE	9	55.997	7.398	31.476	1.00297.21		C
ATOM	63	CG2	ILE	9	55.683	6.066	32.179	1.00297.21		C
ATOM	64	CG1	ILE	9	56.432	8.521	32.429	1.00297.21		C
ATOM	65	CD1	ILE	9	55.295	9.053	33.300	1.00297.21		C
ATOM	66	C	ILE	9	57.352	8.436	29.774	1.00297.21		C
ATOM	67	O	ILE	9	58.508	8.848	29.699	1.00297.21		O
ATOM	68	N	SER	10	56.315	9.096	29.217	1.00149.09		N
ATOM	69	CA	SER	10	56.560	10.335	28.538	1.00149.09		C
ATOM	70	CB	SER	10	55.816	10.455	27.198	1.00149.09		C
ATOM	71	OG	SER	10	54.413	10.449	27.419	1.00149.09		O
ATOM	72	C	SER	10	56.108	11.469	29.400	1.00149.09		C
ATOM	73	O	SER	10	54.933	11.593	29.740	1.00149.09		O
ATOM	74	N	GLU	11	57.068	12.338	29.758	1.00175.19		N
ATOM	75	CA	GLU	11	56.863	13.513	30.551	1.00175.19		C
ATOM	76	CB	GLU	11	57.150	13.322	32.051	1.00175.19		C
ATOM	77	CG	GLU	11	56.113	12.464	32.779	1.00175.19		C
ATOM	78	CD	GLU	11	56.515	12.391	34.246	1.00175.19		C
ATOM	79	OE1	GLU	11	57.563	12.994	34.603	1.00175.19		O
ATOM	80	OE2	GLU	11	55.779	11.735	35.030	1.00175.19		O
ATOM	81	C	GLU	11	57.886	14.466	30.037	1.00175.19		C
ATOM	82	O	GLU	11	57.723	15.044	28.965	1.00175.19		O
ATOM	83	N	CYS	12	58.962	14.689	30.816	1.00121.64		N
ATOM	84	CA	CYS	12	59.998	15.543	30.322	1.00121.64		C
ATOM	85	CB	CYS	12	60.507	16.542	31.373	1.00121.64		C
ATOM	86	SG	CYS	12	61.267	15.718	32.805	1.00121.64		S
ATOM	87	C	CYS	12	61.160	14.680	29.935	1.00121.64		C
ATOM	88	O	CYS	12	62.307	15.018	30.223	1.00121.64		O
ATOM	89	N	PHE	13	60.899	13.540	29.260	1.00	91.87	N
ATOM	90	CA	PHE	13	61.987	12.703	28.843	1.00	91.87	C
ATOM	91	CB	PHE	13	62.278	11.558	29.831	1.00	91.87	C
ATOM	92	CG	PHE	13	63.578	10.934	29.456	1.00	91.87	C
ATOM	93	CD1	PHE	13	64.763	11.530	29.824	1.00	91.87	C
ATOM	94	CD2	PHE	13	63.619	9.753	28.754	1.00	91.87	C
ATOM	95	CE1	PHE	13	65.969	10.962	29.489	1.00	91.87	C
ATOM	96	CE2	PHE	13	64.823	9.179	28.415	1.00	91.87	C
ATOM	97	CZ	PHE	13	66.000	9.785	28.781	1.00	91.87	C
ATOM	98	C	PHE	13	61.591	12.097	27.531	1.00	91.87	C
ATOM	99	O	PHE	13	60.429	11.755	27.325	1.00	91.87	O
ATOM	100	N	LEU	14	62.559	11.926	26.609	1.00	63.74	N
ATOM	101	CA	LEU	14	62.251	11.415	25.301	1.00	63.74	C
ATOM	102	CB	LEU	14	63.425	11.528	24.313	1.00	63.74	C
ATOM	103	CG	LEU	14	63.936	12.968	24.126	1.00	63.74	C
ATOM	104	CD1	LEU	14	65.006	13.043	23.026	1.00	63.74	C

ATOM	105	CD2	LEU	14	62.780	13.958	23.911	1.00	63.74	C
ATOM	106	C	LEU	14	61.920	9.966	25.433	1.00	63.74	C
ATOM	107	O	LEU	14	62.408	9.290	26.337	1.00	63.74	O
ATOM	108	N	LEU	15	61.045	9.447	24.541	1.00206.37		N
ATOM	109	CA	LEU	15	60.706	8.052	24.633	1.00206.37		C
ATOM	110	CB	LEU	15	59.195	7.778	24.505	1.00206.37		C
ATOM	111	CG	LEU	15	58.567	8.151	23.148	1.00206.37		C
ATOM	112	CD1	LEU	15	57.064	7.837	23.137	1.00206.37		C
ATOM	113	CD2	LEU	15	58.868	9.605	22.752	1.00206.37		C
ATOM	114	C	LEU	15	61.408	7.327	23.532	1.00206.37		C
ATOM	115	O	LEU	15	60.801	6.605	22.743	1.00206.37		O
ATOM	116	N	GLY	16	62.741	7.460	23.516	1.00111.49		N
ATOM	117	CA	GLY	16	63.604	6.846	22.550	1.00111.49		C
ATOM	118	C	GLY	16	63.503	5.373	22.744	1.00111.49		C
ATOM	119	O	GLY	16	63.781	4.588	21.842	1.00111.49		O
ATOM	120	N	PHE	17	63.153	4.948	23.965	1.00134.84		N
ATOM	121	CA	PHE	17	63.112	3.540	24.200	1.00134.84		C
ATOM	122	CB	PHE	17	62.786	3.163	25.663	1.00134.84		C
ATOM	123	CG	PHE	17	61.436	3.661	26.052	1.00134.84		C
ATOM	124	CD1	PHE	17	60.309	2.930	25.757	1.00134.84		C
ATOM	125	CD2	PHE	17	61.299	4.852	26.728	1.00134.84		C
ATOM	126	CE1	PHE	17	59.063	3.384	26.120	1.00134.84		C
ATOM	127	CE2	PHE	17	60.055	5.311	27.094	1.00134.84		C
ATOM	128	CZ	PHE	17	58.933	4.577	26.790	1.00134.84		C
ATOM	129	C	PHE	17	62.104	2.922	23.279	1.00134.84		C
ATOM	130	O	PHE	17	62.337	1.839	22.746	1.00134.84		O
ATOM	131	N	SER	18	60.953	3.589	23.066	1.00105.76		N
ATOM	132	CA	SER	18	59.930	3.021	22.236	1.00105.76		C
ATOM	133	CB	SER	18	58.656	3.882	22.194	1.00105.76		C
ATOM	134	OG	SER	18	58.079	3.956	23.489	1.00105.76		O
ATOM	135	C	SER	18	60.399	2.862	20.824	1.00105.76		C
ATOM	136	O	SER	18	60.244	1.791	20.237	1.00105.76		O
ATOM	137	N	GLU	19	60.993	3.922	20.240	1.00127.22		N
ATOM	138	CA	GLU	19	61.361	3.854	18.852	1.00127.22		C
ATOM	139	CB	GLU	19	60.385	4.588	17.937	1.00127.22		C
ATOM	140	CG	GLU	19	60.327	6.087	18.235	1.00127.22		C
ATOM	141	CD	GLU	19	59.051	6.613	17.609	1.00127.22		C
ATOM	142	OE1	GLU	19	58.138	5.776	17.388	1.00127.22		O
ATOM	143	OE2	GLU	19	58.963	7.844	17.353	1.00127.22		O
ATOM	144	C	GLU	19	62.626	4.602	18.619	1.00127.22		C
ATOM	145	O	GLU	19	63.156	5.275	19.498	1.00127.22		O
ATOM	146	N	GLN	20	63.124	4.508	17.373	1.00	93.23	N
ATOM	147	CA	GLN	20	64.302	5.220	16.992	1.00	93.23	C
ATOM	148	CB	GLN	20	64.778	4.879	15.571	1.00	93.23	C
ATOM	149	CG	GLN	20	65.166	3.411	15.393	1.00	93.23	C
ATOM	150	CD	GLN	20	66.475	3.178	16.132	1.00	93.23	C
ATOM	151	OE1	GLN	20	66.597	3.473	17.320	1.00	93.23	O
ATOM	152	NE2	GLN	20	67.491	2.641	15.406	1.00	93.23	N
ATOM	153	C	GLN	20	63.934	6.670	17.001	1.00	93.23	C
ATOM	154	O	GLN	20	62.780	7.029	16.775	1.00	93.23	O
ATOM	155	N	LEU	21	64.917	7.542	17.288	1.00	93.26	N
ATOM	156	CA	LEU	21	64.678	8.953	17.344	1.00	93.26	C
ATOM	157	CB	LEU	21	65.909	9.766	17.797	1.00	93.26	C
ATOM	158	CG	LEU	21	67.117	9.711	16.840	1.00	93.26	C
ATOM	159	CD1	LEU	21	68.287	10.548	17.379	1.00	93.26	C
ATOM	160	CD2	LEU	21	67.533	8.267	16.513	1.00	93.26	C
ATOM	161	C	LEU	21	64.286	9.412	15.980	1.00	93.26	C
ATOM	162	O	LEU	21	63.409	10.263	15.820	1.00	93.26	O
ATOM	163	N	GLU	22	64.917	8.832	14.949	1.00143.22		N
ATOM	164	CA	GLU	22	64.622	9.238	13.613	1.00143.22		C
ATOM	165	CB	GLU	22	65.410	8.461	12.540	1.00143.22		C
ATOM	166	CG	GLU	22	66.799	9.032	12.235	1.00143.22		C
ATOM	167	CD	GLU	22	67.623	9.088	13.511	1.00143.22		C
ATOM	168	OE1	GLU	22	68.303	8.078	13.834	1.00143.22		O
ATOM	169	OE2	GLU	22	67.586	10.157	14.176	1.00143.22		O
ATOM	170	C	GLU	22	63.175	9.021	13.358	1.00143.22		C
ATOM	171	O	GLU	22	62.549	9.887	12.769	1.00143.22		O
ATOM	172	N	GLU	23	62.587	7.915	13.849	1.00104.54		N
ATOM	173	CA	GLU	23	61.226	7.554	13.542	1.00104.54		C
ATOM	174	CB	GLU	23	60.756	6.351	14.379	1.00104.54		C
ATOM	175	CG	GLU	23	61.651	5.114	14.275	1.00104.54		C
ATOM	176	CD	GLU	23	61.314	4.347	13.009	1.00104.54		C
ATOM	177	OE1	GLU	23	60.437	4.818	12.236	1.00104.54		O
ATOM	178	OE2	GLU	23	61.934	3.270	12.802	1.00104.54		O
ATOM	179	C	GLU	23	60.321	8.677	13.923	1.00104.54		C
ATOM	180	O	GLU	23	59.453	9.077	13.148	1.00104.54		O
ATOM	181	N	GLN	24	60.536	9.255	15.114	1.00103.15		N

ATOM	182	CA	GLN	24	59.661	10.282	15.584	1.00103.15	C
ATOM	183	CB	GLN	24	60.014	10.807	16.984	1.00103.15	C
ATOM	184	CG	GLN	24	58.925	11.705	17.575	1.00103.15	C
ATOM	185	CD	GLN	24	59.179	11.800	19.072	1.00103.15	C
ATOM	186	OE1	GLN	24	60.143	11.232	19.582	1.00103.15	O
ATOM	187	NE2	GLN	24	58.283	12.517	19.802	1.00103.15	N
ATOM	188	C	GLN	24	59.725	11.391	14.590	1.00103.15	C
ATOM	189	O	GLN	24	58.755	12.119	14.404	1.00103.15	O
ATOM	190	N	LYS	25	60.873	11.543	13.907	1.00127.20	N
ATOM	191	CA	LYS	25	61.009	12.594	12.942	1.00127.20	C
ATOM	192	CB	LYS	25	62.370	12.569	12.222	1.00127.20	C
ATOM	193	CG	LYS	25	62.730	13.881	11.523	1.00127.20	C
ATOM	194	CD	LYS	25	61.747	14.312	10.434	1.00127.20	C
ATOM	195	CE	LYS	25	62.137	15.630	9.761	1.00127.20	C
ATOM	196	NZ	LYS	25	61.167	15.965	8.695	1.00127.20	N
ATOM	197	C	LYS	25	59.922	12.451	11.909	1.00127.20	C
ATOM	198	O	LYS	25	59.299	13.458	11.586	1.00127.20	O
ATOM	199	N	PRO	26	59.637	11.297	11.351	1.00142.92	N
ATOM	200	CA	PRO	26	58.518	11.255	10.458	1.00142.92	C
ATOM	201	CD	PRO	26	60.699	10.476	10.800	1.00142.92	C
ATOM	202	CB	PRO	26	58.609	9.935	9.706	1.00142.92	C
ATOM	203	CG	PRO	26	60.124	9.744	9.577	1.00142.92	C
ATOM	204	C	PRO	26	57.200	11.528	11.093	1.00142.92	C
ATOM	205	O	PRO	26	56.299	11.992	10.397	1.00142.92	O
ATOM	206	N	LEU	27	57.048	11.246	12.393	1.00110.58	N
ATOM	207	CA	LEU	27	55.801	11.538	13.030	1.00110.58	C
ATOM	208	CB	LEU	27	55.866	11.164	14.524	1.00110.58	C
ATOM	209	CG	LEU	27	54.516	11.073	15.258	1.00110.58	C
ATOM	210	CD1	LEU	27	54.722	11.004	16.779	1.00110.58	C
ATOM	211	CD2	LEU	27	53.539	12.166	14.823	1.00110.58	C
ATOM	212	C	LEU	27	55.694	13.027	12.909	1.00110.58	C
ATOM	213	O	LEU	27	54.648	13.581	12.573	1.00110.58	O
ATOM	214	N	PHE	28	56.840	13.695	13.144	1.00151.29	N
ATOM	215	CA	PHE	28	57.008	15.121	13.123	1.00151.29	C
ATOM	216	CB	PHE	28	58.466	15.509	13.428	1.00151.29	C
ATOM	217	CG	PHE	28	58.630	16.985	13.340	1.00151.29	C
ATOM	218	CD1	PHE	28	58.917	17.576	12.131	1.00151.29	C
ATOM	219	CD2	PHE	28	58.502	17.775	14.457	1.00151.29	C
ATOM	220	CE1	PHE	28	59.075	18.938	12.037	1.00151.29	C
ATOM	221	CE2	PHE	28	58.661	19.137	14.367	1.00151.29	C
ATOM	222	CZ	PHE	28	58.948	19.722	13.158	1.00151.29	C
ATOM	223	C	PHE	28	56.730	15.619	11.747	1.00151.29	C
ATOM	224	O	PHE	28	55.959	16.556	11.554	1.00151.29	O
ATOM	225	N	GLY	29	57.354	14.981	10.744	1.00 20.12	N
ATOM	226	CA	GLY	29	57.199	15.432	9.399	1.00 20.12	C
ATOM	227	C	GLY	29	55.760	15.290	9.043	1.00 20.12	C
ATOM	228	O	GLY	29	55.175	16.173	8.421	1.00 20.12	O
ATOM	229	N	SER	30	55.145	14.169	9.454	1.00 83.30	N
ATOM	230	CA	SER	30	53.786	13.911	9.086	1.00 83.30	C
ATOM	231	CB	SER	30	53.255	12.591	9.669	1.00 83.30	C
ATOM	232	OG	SER	30	53.981	11.492	9.139	1.00 83.30	O
ATOM	233	C	SER	30	52.913	15.008	9.607	1.00 83.30	C
ATOM	234	O	SER	30	52.157	15.621	8.855	1.00 83.30	O
ATOM	235	N	PHE	31	53.027	15.319	10.910	1.00 68.55	N
ATOM	236	CA	PHE	31	52.173	16.319	11.479	1.00 68.55	C
ATOM	237	CB	PHE	31	52.282	16.465	13.005	1.00 68.55	C
ATOM	238	CG	PHE	31	51.359	15.443	13.575	1.00 68.55	C
ATOM	239	CD1	PHE	31	51.700	14.113	13.606	1.00 68.55	C
ATOM	240	CD2	PHE	31	50.136	15.824	14.077	1.00 68.55	C
ATOM	241	CE1	PHE	31	50.840	13.178	14.133	1.00 68.55	C
ATOM	242	CE2	PHE	31	49.269	14.895	14.605	1.00 68.55	C
ATOM	243	CZ	PHE	31	49.621	13.567	14.634	1.00 68.55	C
ATOM	244	C	PHE	31	52.420	17.639	10.832	1.00 68.55	C
ATOM	245	O	PHE	31	51.494	18.430	10.664	1.00 68.55	O
ATOM	246	N	LEU	32	53.680	17.928	10.467	1.00 95.18	N
ATOM	247	CA	LEU	32	53.978	19.199	9.875	1.00 95.18	C
ATOM	248	CB	LEU	32	55.485	19.357	9.584	1.00 95.18	C
ATOM	249	CG	LEU	32	55.921	20.717	8.992	1.00 95.18	C
ATOM	250	CD1	LEU	32	55.471	20.906	7.533	1.00 95.18	C
ATOM	251	CD2	LEU	32	55.490	21.876	9.904	1.00 95.18	C
ATOM	252	C	LEU	32	53.221	19.337	8.586	1.00 95.18	C
ATOM	253	O	LEU	32	52.593	20.367	8.342	1.00 95.18	O
ATOM	254	N	PHE	33	53.233	18.294	7.734	1.00 39.47	N
ATOM	255	CA	PHE	33	52.592	18.386	6.450	1.00 39.47	C
ATOM	256	CB	PHE	33	52.818	17.155	5.553	1.00 39.47	C
ATOM	257	CG	PHE	33	54.208	17.236	5.021	1.00 39.47	C
ATOM	258	CD1	PHE	33	55.275	16.771	5.752	1.00 39.47	C

ATOM	259	CD2	PHE	33	54.446	17.783	3.781	1.00	39.47	C
ATOM	260	CE1	PHE	33	56.556	16.848	5.260	1.00	39.47	C
ATOM	261	CE2	PHE	33	55.724	17.863	3.281	1.00	39.47	C
ATOM	262	CZ	PHE	33	56.783	17.396	4.021	1.00	39.47	C
ATOM	263	C	PHE	33	51.119	18.570	6.615	1.00	39.47	C
ATOM	264	O	PHE	33	50.514	19.381	5.916	1.00	39.47	O
ATOM	265	N	MET	34	50.497	17.825	7.546	1.00105.69		N
ATOM	266	CA	MET	34	49.075	17.914	7.699	1.00105.69		C
ATOM	267	CB	MET	34	48.486	16.865	8.655	1.00105.69		C
ATOM	268	CG	MET	34	48.417	15.490	7.985	1.00105.69		C
ATOM	269	SD	MET	34	47.284	15.442	6.559	1.00105.69		S
ATOM	270	CE	MET	34	47.949	13.918	5.827	1.00105.69		C
ATOM	271	C	MET	34	48.687	19.289	8.138	1.00105.69		C
ATOM	272	O	MET	34	47.649	19.805	7.731	1.00105.69		O
ATOM	273	N	TYR	35	49.511	19.923	8.987	1.00	94.24	N
ATOM	274	CA	TYR	35	49.235	21.251	9.455	1.00	94.24	C
ATOM	275	CB	TYR	35	50.344	21.746	10.403	1.00	94.24	C
ATOM	276	CG	TYR	35	50.064	23.143	10.840	1.00	94.24	C
ATOM	277	CD1	TYR	35	50.517	24.208	10.096	1.00	94.24	C
ATOM	278	CD2	TYR	35	49.355	23.392	11.991	1.00	94.24	C
ATOM	279	CE1	TYR	35	50.265	25.500	10.492	1.00	94.24	C
ATOM	280	CE2	TYR	35	49.099	24.682	12.394	1.00	94.24	C
ATOM	281	CZ	TYR	35	49.555	25.738	11.644	1.00	94.24	C
ATOM	282	OH	TYR	35	49.295	27.063	12.055	1.00	94.24	O
ATOM	283	C	TYR	35	49.220	22.166	8.272	1.00	94.24	C
ATOM	284	O	TYR	35	48.354	23.030	8.150	1.00	94.24	O
ATOM	285	N	LEU	36	50.188	21.990	7.355	1.00	99.30	N
ATOM	286	CA	LEU	36	50.295	22.872	6.230	1.00	99.30	C
ATOM	287	CB	LEU	36	51.530	22.549	5.360	1.00	99.30	C
ATOM	288	CG	LEU	36	51.777	23.490	4.157	1.00	99.30	C
ATOM	289	CD1	LEU	36	50.740	23.307	3.034	1.00	99.30	C
ATOM	290	CD2	LEU	36	51.907	24.949	4.618	1.00	99.30	C
ATOM	291	C	LEU	36	49.065	22.750	5.384	1.00	99.30	C
ATOM	292	O	LEU	36	48.508	23.760	4.960	1.00	99.30	O
ATOM	293	N	VAL	37	48.630	21.508	5.091	1.00	38.63	N
ATOM	294	CA	VAL	37	47.494	21.261	4.243	1.00	38.63	C
ATOM	295	CB	VAL	37	47.383	19.821	3.837	1.00	38.63	C
ATOM	296	CG1	VAL	37	46.091	19.639	3.022	1.00	38.63	C
ATOM	297	CG2	VAL	37	48.660	19.429	3.074	1.00	38.63	C
ATOM	298	C	VAL	37	46.199	21.630	4.904	1.00	38.63	C
ATOM	299	O	VAL	37	45.344	22.274	4.298	1.00	38.63	O
ATOM	300	N	THR	38	46.035	21.237	6.180	1.00112.81		N
ATOM	301	CA	THR	38	44.804	21.382	6.903	1.00112.81		C
ATOM	302	CB	THR	38	44.880	20.747	8.257	1.00112.81		C
ATOM	303	OG1	THR	38	43.620	20.802	8.907	1.00112.81		O
ATOM	304	CG2	THR	38	45.945	21.492	9.071	1.00112.81		C
ATOM	305	C	THR	38	44.430	22.817	7.091	1.00112.81		C
ATOM	306	O	THR	38	43.253	23.163	7.015	1.00112.81		O
ATOM	307	N	VAL	39	45.406	23.695	7.378	1.00	40.88	N
ATOM	308	CA	VAL	39	45.065	25.063	7.647	1.00	40.88	C
ATOM	309	CB	VAL	39	46.258	25.880	8.047	1.00	40.88	C
ATOM	310	CG1	VAL	39	45.814	27.340	8.235	1.00	40.88	C
ATOM	311	CG2	VAL	39	46.882	25.248	9.302	1.00	40.88	C
ATOM	312	C	VAL	39	44.458	25.726	6.444	1.00	40.88	C
ATOM	313	O	VAL	39	43.356	26.267	6.518	1.00	40.88	O
ATOM	314	N	ALA	40	45.150	25.679	5.289	1.00	34.03	N
ATOM	315	CA	ALA	40	44.695	26.396	4.129	1.00	34.03	C
ATOM	316	CB	ALA	40	45.682	26.304	2.952	1.00	34.03	C
ATOM	317	C	ALA	40	43.384	25.862	3.648	1.00	34.03	C
ATOM	318	O	ALA	40	42.463	26.624	3.357	1.00	34.03	O
ATOM	319	N	GLY	41	43.255	24.526	3.572	1.00	28.38	N
ATOM	320	CA	GLY	41	42.068	23.942	3.021	1.00	28.38	C
ATOM	321	C	GLY	41	40.879	24.275	3.863	1.00	28.38	C
ATOM	322	O	GLY	41	39.811	24.586	3.339	1.00	28.38	O
ATOM	323	N	ASN	42	41.022	24.183	5.197	1.00	47.12	N
ATOM	324	CA	ASN	42	39.920	24.433	6.082	1.00	47.12	C
ATOM	325	CB	ASN	42	40.211	24.030	7.537	1.00	47.12	C
ATOM	326	CG	ASN	42	40.215	22.511	7.608	1.00	47.12	C
ATOM	327	OD1	ASN	42	39.322	21.849	7.082	1.00	47.12	O
ATOM	328	ND2	ASN	42	41.251	21.939	8.277	1.00	47.12	N
ATOM	329	C	ASN	42	39.562	25.885	6.083	1.00	47.12	C
ATOM	330	O	ASN	42	38.386	26.239	6.126	1.00	47.12	O
ATOM	331	N	LEU	43	40.574	26.770	6.075	1.00	94.50	N
ATOM	332	CA	LEU	43	40.319	28.181	6.130	1.00	94.50	C
ATOM	333	CB	LEU	43	41.614	29.003	6.304	1.00	94.50	C
ATOM	334	CG	LEU	43	41.417	30.523	6.505	1.00	94.50	C
ATOM	335	CD1	LEU	43	40.925	31.236	5.233	1.00	94.50	C

ATOM	336	CD2	LEU	43	40.524	30.800	7.725	1.00	94.50	C
ATOM	337	C	LEU	43	39.646	28.613	4.863	1.00	94.50	C
ATOM	338	O	LEU	43	38.704	29.403	4.886	1.00	94.50	O
ATOM	339	N	LEU	44	40.112	28.101	3.713	1.00	91.64	N
ATOM	340	CA	LEU	44	39.575	28.545	2.461	1.00	91.64	C
ATOM	341	CB	LEU	44	40.301	27.890	1.264	1.00	91.64	C
ATOM	342	CG	LEU	44	40.002	28.477	-0.136	1.00	91.64	C
ATOM	343	CD1	LEU	44	40.801	27.725	-1.212	1.00	91.64	C
ATOM	344	CD2	LEU	44	38.505	28.530	-0.470	1.00	91.64	C
ATOM	345	C	LEU	44	38.130	28.157	2.420	1.00	91.64	C
ATOM	346	O	LEU	44	37.274	28.957	2.044	1.00	91.64	O
ATOM	347	N	ILE	45	37.818	26.919	2.840	1.00103.41		N
ATOM	348	CA	ILE	45	36.469	26.448	2.779	1.00103.41		C
ATOM	349	CB	ILE	45	36.343	24.982	3.103	1.00103.41		C
ATOM	350	CG2	ILE	45	37.089	24.205	2.008	1.00103.41		C
ATOM	351	CG1	ILE	45	36.833	24.659	4.518	1.00103.41		C
ATOM	352	CD1	ILE	45	36.708	23.176	4.866	1.00103.41		C
ATOM	353	C	ILE	45	35.602	27.294	3.656	1.00103.41		C
ATOM	354	O	ILE	45	34.484	27.637	3.276	1.00103.41		O
ATOM	355	N	ILE	46	36.088	27.666	4.856	1.00129.03		N
ATOM	356	CA	ILE	46	35.282	28.470	5.726	1.00129.03		C
ATOM	357	CB	ILE	46	35.861	28.624	7.113	1.00129.03		C
ATOM	358	CG2	ILE	46	37.048	29.595	7.053	1.00129.03		C
ATOM	359	CG1	ILE	46	34.783	29.061	8.121	1.00129.03		C
ATOM	360	CD1	ILE	46	34.204	30.450	7.864	1.00129.03		C
ATOM	361	C	ILE	46	35.075	29.826	5.108	1.00129.03		C
ATOM	362	O	ILE	46	33.972	30.368	5.135	1.00129.03		O
ATOM	363	N	LEU	47	36.128	30.414	4.509	1.00	75.50	N
ATOM	364	CA	LEU	47	36.011	31.743	3.975	1.00	75.50	C
ATOM	365	CB	LEU	47	37.356	32.270	3.429	1.00	75.50	C
ATOM	366	CG	LEU	47	37.337	33.713	2.876	1.00	75.50	C
ATOM	367	CD1	LEU	47	36.604	33.828	1.528	1.00	75.50	C
ATOM	368	CD2	LEU	47	36.800	34.695	3.929	1.00	75.50	C
ATOM	369	C	LEU	47	35.000	31.761	2.868	1.00	75.50	C
ATOM	370	O	LEU	47	34.156	32.653	2.811	1.00	75.50	O
ATOM	371	N	VAL	48	35.046	30.771	1.959	1.00	41.06	N
ATOM	372	CA	VAL	48	34.149	30.793	0.839	1.00	41.06	C
ATOM	373	CB	VAL	48	34.407	29.689	-0.140	1.00	41.06	C
ATOM	374	CG1	VAL	48	33.293	29.705	-1.203	1.00	41.06	C
ATOM	375	CG2	VAL	48	35.818	29.897	-0.719	1.00	41.06	C
ATOM	376	C	VAL	48	32.730	30.683	1.303	1.00	41.06	C
ATOM	377	O	VAL	48	31.863	31.408	0.817	1.00	41.06	O
ATOM	378	N	ILE	49	32.445	29.801	2.279	1.00	90.73	N
ATOM	379	CA	ILE	49	31.072	29.618	2.660	1.00	90.73	C
ATOM	380	CB	ILE	49	30.860	28.585	3.729	1.00	90.73	C
ATOM	381	CG2	ILE	49	31.597	29.014	5.005	1.00	90.73	C
ATOM	382	CG1	ILE	49	29.355	28.374	3.940	1.00	90.73	C
ATOM	383	CD1	ILE	49	29.039	27.255	4.926	1.00	90.73	C
ATOM	384	C	ILE	49	30.504	30.903	3.173	1.00	90.73	C
ATOM	385	O	ILE	49	29.372	31.258	2.846	1.00	90.73	O
ATOM	386	N	ILE	50	31.263	31.636	4.005	1.00	85.39	N
ATOM	387	CA	ILE	50	30.737	32.850	4.562	1.00	85.39	C
ATOM	388	CB	ILE	50	31.641	33.462	5.595	1.00	85.39	C
ATOM	389	CG2	ILE	50	31.777	32.464	6.757	1.00	85.39	C
ATOM	390	CG1	ILE	50	32.987	33.874	4.975	1.00	85.39	C
ATOM	391	CD1	ILE	50	33.830	34.766	5.885	1.00	85.39	C
ATOM	392	C	ILE	50	30.516	33.870	3.487	1.00	85.39	C
ATOM	393	O	ILE	50	29.461	34.500	3.427	1.00	85.39	O
ATOM	394	N	THR	51	31.497	34.036	2.579	1.00100.54		N
ATOM	395	CA	THR	51	31.425	35.080	1.597	1.00100.54		C
ATOM	396	CB	THR	51	32.641	35.134	0.714	1.00100.54		C
ATOM	397	OG1	THR	51	32.584	36.277	-0.127	1.00100.54		O
ATOM	398	CG2	THR	51	32.723	33.850	-0.128	1.00100.54		C
ATOM	399	C	THR	51	30.217	34.905	0.731	1.00100.54		C
ATOM	400	O	THR	51	29.506	35.872	0.463	1.00100.54		O
ATOM	401	N	ASP	52	29.934	33.672	0.273	1.00	99.80	N
ATOM	402	CA	ASP	52	28.793	33.495	-0.578	1.00	99.80	C
ATOM	403	CB	ASP	52	28.964	32.352	-1.607	1.00	99.80	C
ATOM	404	CG	ASP	52	29.409	31.062	-0.929	1.00	99.80	C
ATOM	405	OD1	ASP	52	29.405	31.001	0.327	1.00	99.80	O
ATOM	406	OD2	ASP	52	29.785	30.116	-1.672	1.00	99.80	O
ATOM	407	C	ASP	52	27.562	33.338	0.264	1.00	99.80	C
ATOM	408	O	ASP	52	27.307	32.306	0.882	1.00	99.80	O
ATOM	409	N	THR	53	26.732	34.396	0.257	1.00107.51		N
ATOM	410	CA	THR	53	25.564	34.505	1.080	1.00107.51		C
ATOM	411	CB	THR	53	24.839	35.802	0.880	1.00107.51		C
ATOM	412	OG1	THR	53	23.814	35.946	1.853	1.00107.51		O

ATOM	413	CG2	THR	53	24.238	35.817	-0.536	1.00107.51	C
ATOM	414	C	THR	53	24.611	33.404	0.750	1.00107.51	C
ATOM	415	O	THR	53	23.872	32.940	1.616	1.00107.51	O
ATOM	416	N	GLN	54	24.579	32.990	-0.525	1.00102.90	N
ATOM	417	CA	GLN	54	23.653	31.993	-0.985	1.00102.90	C
ATOM	418	CB	GLN	54	23.641	31.852	-2.517	1.00102.90	C
ATOM	419	CG	GLN	54	24.964	31.370	-3.110	1.00102.90	C
ATOM	420	CD	GLN	54	24.790	31.280	-4.620	1.00102.90	C
ATOM	421	OE1	GLN	54	25.737	31.000	-5.353	1.00102.90	O
ATOM	422	NE2	GLN	54	23.542	31.527	-5.102	1.00102.90	N
ATOM	423	C	GLN	54	23.917	30.646	-0.390	1.00102.90	C
ATOM	424	O	GLN	54	22.973	29.906	-0.120	1.00102.90	O
ATOM	425	N	LEU	55	25.189	30.261	-0.163	1.00132.51	N
ATOM	426	CA	LEU	55	25.393	28.913	0.289	1.00132.51	C
ATOM	427	CB	LEU	55	26.841	28.439	0.105	1.00132.51	C
ATOM	428	CG	LEU	55	27.209	28.282	-1.382	1.00132.51	C
ATOM	429	CD1	LEU	55	27.128	29.623	-2.125	1.00132.51	C
ATOM	430	CD2	LEU	55	28.561	27.579	-1.556	1.00132.51	C
ATOM	431	C	LEU	55	25.004	28.785	1.727	1.00132.51	C
ATOM	432	O	LEU	55	25.839	28.885	2.625	1.00132.51	O
ATOM	433	N	HIS	56	23.703	28.522	1.978	1.00157.93	N
ATOM	434	CA	HIS	56	23.250	28.386	3.329	1.00157.93	C
ATOM	435	ND1	HIS	56	22.964	32.106	4.203	1.00157.93	N
ATOM	436	CG	HIS	56	23.408	30.808	4.088	1.00157.93	C
ATOM	437	CB	HIS	56	22.509	29.631	3.848	1.00157.93	C
ATOM	438	NE2	HIS	56	25.169	32.163	4.481	1.00157.93	N
ATOM	439	CD2	HIS	56	24.757	30.861	4.262	1.00157.93	C
ATOM	440	CE1	HIS	56	24.057	32.875	4.438	1.00157.93	C
ATOM	441	C	HIS	56	22.285	27.244	3.427	1.00157.93	C
ATOM	442	O	HIS	56	21.217	27.389	4.017	1.00157.93	O
ATOM	443	N	THR	57	22.626	26.062	2.879	1.00 63.03	N
ATOM	444	CA	THR	57	21.716	24.966	3.045	1.00 63.03	C
ATOM	445	CB	THR	57	21.687	23.958	1.928	1.00 63.03	C
ATOM	446	OG1	THR	57	22.883	23.195	1.906	1.00 63.03	O
ATOM	447	CG2	THR	57	21.507	24.706	0.596	1.00 63.03	C
ATOM	448	C	THR	57	22.199	24.246	4.256	1.00 63.03	C
ATOM	449	O	THR	57	23.206	24.635	4.844	1.00 63.03	O
ATOM	450	N	PRO	58	21.520	23.216	4.668	1.00 81.06	N
ATOM	451	CA	PRO	58	21.989	22.505	5.814	1.00 81.06	C
ATOM	452	CD	PRO	58	20.084	23.089	4.490	1.00 81.06	C
ATOM	453	CB	PRO	58	20.905	21.479	6.131	1.00 81.06	C
ATOM	454	CG	PRO	58	19.617	22.167	5.633	1.00 81.06	C
ATOM	455	C	PRO	58	23.345	21.951	5.523	1.00 81.06	C
ATOM	456	O	PRO	58	24.183	21.915	6.419	1.00 81.06	O
ATOM	457	N	MET	59	23.597	21.528	4.274	1.00 67.96	N
ATOM	458	CA	MET	59	24.876	20.968	3.947	1.00 67.96	C
ATOM	459	CB	MET	59	24.943	20.376	2.528	1.00 67.96	C
ATOM	460	CG	MET	59	24.075	19.128	2.346	1.00 67.96	C
ATOM	461	SD	MET	59	24.174	18.371	0.695	1.00 67.96	S
ATOM	462	CE	MET	59	25.853	17.714	0.925	1.00 67.96	C
ATOM	463	C	MET	59	25.930	22.022	4.049	1.00 67.96	C
ATOM	464	O	MET	59	27.035	21.758	4.521	1.00 67.96	O
ATOM	465	N	TYR	60	25.618	23.257	3.614	1.00104.05	N
ATOM	466	CA	TYR	60	26.624	24.275	3.645	1.00104.05	C
ATOM	467	CB	TYR	60	26.177	25.632	3.070	1.00104.05	C
ATOM	468	CG	TYR	60	25.931	25.455	1.611	1.00104.05	C
ATOM	469	CD1	TYR	60	26.953	25.558	0.699	1.00104.05	C
ATOM	470	CD2	TYR	60	24.670	25.175	1.151	1.00104.05	C
ATOM	471	CE1	TYR	60	26.703	25.388	-0.644	1.00104.05	C
ATOM	472	CE2	TYR	60	24.411	25.004	-0.186	1.00104.05	C
ATOM	473	CZ	TYR	60	25.435	25.112	-1.089	1.00104.05	C
ATOM	474	OH	TYR	60	25.184	24.938	-2.465	1.00104.05	O
ATOM	475	C	TYR	60	27.014	24.489	5.069	1.00104.05	C
ATOM	476	O	TYR	60	28.191	24.688	5.358	1.00104.05	O
ATOM	477	N	PHE	61	26.033	24.485	5.995	1.00 63.31	N
ATOM	478	CA	PHE	61	26.343	24.697	7.381	1.00 63.31	C
ATOM	479	CB	PHE	61	25.108	24.833	8.282	1.00 63.31	C
ATOM	480	CG	PHE	61	24.449	26.145	8.035	1.00 63.31	C
ATOM	481	CD1	PHE	61	24.835	27.258	8.746	1.00 63.31	C
ATOM	482	CD2	PHE	61	23.444	26.264	7.103	1.00 63.31	C
ATOM	483	CE1	PHE	61	24.231	28.473	8.530	1.00 63.31	C
ATOM	484	CE2	PHE	61	22.836	27.478	6.884	1.00 63.31	C
ATOM	485	CZ	PHE	61	23.229	28.585	7.597	1.00 63.31	C
ATOM	486	C	PHE	61	27.162	23.570	7.940	1.00 63.31	C
ATOM	487	O	PHE	61	28.178	23.816	8.587	1.00 63.31	O
ATOM	488	N	PHE	62	26.775	22.302	7.678	1.00107.87	N
ATOM	489	CA	PHE	62	27.463	21.205	8.311	1.00107.87	C

ATOM	490	CB	PHE	62	26.992	19.793	7.904	1.00107.87	C
ATOM	491	CG	PHE	62	25.543	19.641	8.206	1.00107.87	C
ATOM	492	CD1	PHE	62	25.062	19.830	9.481	1.00107.87	C
ATOM	493	CD2	PHE	62	24.657	19.345	7.197	1.00107.87	C
ATOM	494	CE1	PHE	62	23.720	19.701	9.746	1.00107.87	C
ATOM	495	CE2	PHE	62	23.314	19.214	7.454	1.00107.87	C
ATOM	496	CZ	PHE	62	22.845	19.391	8.733	1.00107.87	C
ATOM	497	C	PHE	62	28.905	21.252	7.932	1.00107.87	C
ATOM	498	O	PHE	62	29.778	21.043	8.772	1.00107.87	O
ATOM	499	N	LEU	63	29.194	21.500	6.643	1.00112.39	N
ATOM	500	CA	LEU	63	30.556	21.547	6.199	1.00112.39	C
ATOM	501	CB	LEU	63	30.732	21.622	4.673	1.00112.39	C
ATOM	502	CG	LEU	63	30.447	20.286	3.965	1.00112.39	C
ATOM	503	CD1	LEU	63	31.423	19.195	4.431	1.00112.39	C
ATOM	504	CD2	LEU	63	28.978	19.868	4.088	1.00112.39	C
ATOM	505	C	LEU	63	31.266	22.712	6.805	1.00112.39	C
ATOM	506	O	LEU	63	32.465	22.638	7.061	1.00112.39	O
ATOM	507	N	ALA	64	30.567	23.843	7.006	1.00 27.54	N
ATOM	508	CA	ALA	64	31.225	24.973	7.594	1.00 27.54	C
ATOM	509	CB	ALA	64	30.309	26.203	7.711	1.00 27.54	C
ATOM	510	C	ALA	64	31.640	24.585	8.976	1.00 27.54	C
ATOM	511	O	ALA	64	32.755	24.871	9.407	1.00 27.54	O
ATOM	512	N	ASN	65	30.747	23.882	9.695	1.00 58.29	N
ATOM	513	CA	ASN	65	30.990	23.487	11.051	1.00 58.29	C
ATOM	514	CB	ASN	65	29.819	22.663	11.622	1.00 58.29	C
ATOM	515	CG	ASN	65	30.129	22.285	13.063	1.00 58.29	C
ATOM	516	OD1	ASN	65	30.460	23.138	13.884	1.00 58.29	O
ATOM	517	ND2	ASN	65	30.019	20.967	13.381	1.00 58.29	N
ATOM	518	C	ASN	65	32.204	22.620	11.078	1.00 58.29	C
ATOM	519	O	ASN	65	33.084	22.774	11.923	1.00 58.29	O
ATOM	520	N	LEU	66	32.287	21.699	10.113	1.00157.94	N
ATOM	521	CA	LEU	66	33.336	20.735	10.049	1.00157.94	C
ATOM	522	CB	LEU	66	33.008	19.722	8.944	1.00157.94	C
ATOM	523	CG	LEU	66	33.766	18.398	9.037	1.00157.94	C
ATOM	524	CD1	LEU	66	33.625	17.788	10.442	1.00157.94	C
ATOM	525	CD2	LEU	66	33.236	17.432	7.965	1.00157.94	C
ATOM	526	C	LEU	66	34.637	21.455	9.825	1.00157.94	C
ATOM	527	O	LEU	66	35.661	21.080	10.391	1.00157.94	O
ATOM	528	N	SER	67	34.622	22.528	9.009	1.00 80.63	N
ATOM	529	CA	SER	67	35.799	23.294	8.694	1.00 80.63	C
ATOM	530	CB	SER	67	35.479	24.475	7.763	1.00 80.63	C
ATOM	531	OG	SER	67	34.742	24.024	6.637	1.00 80.63	O
ATOM	532	C	SER	67	36.324	23.898	9.961	1.00 80.63	C
ATOM	533	O	SER	67	37.529	23.889	10.206	1.00 80.63	O
ATOM	534	N	LEU	68	35.426	24.460	10.794	1.00 87.82	N
ATOM	535	CA	LEU	68	35.849	25.075	12.021	1.00 87.82	C
ATOM	536	CB	LEU	68	34.720	25.802	12.775	1.00 87.82	C
ATOM	537	CG	LEU	68	34.330	27.162	12.163	1.00 87.82	C
ATOM	538	CD1	LEU	68	33.823	27.023	10.722	1.00 87.82	C
ATOM	539	CD2	LEU	68	33.339	27.911	13.068	1.00 87.82	C
ATOM	540	C	LEU	68	36.415	24.036	12.929	1.00 87.82	C
ATOM	541	O	LEU	68	37.446	24.254	13.563	1.00 87.82	O
ATOM	542	N	ALA	69	35.764	22.862	13.005	1.00 45.82	N
ATOM	543	CA	ALA	69	36.242	21.838	13.882	1.00 45.82	C
ATOM	544	CB	ALA	69	35.391	20.558	13.822	1.00 45.82	C
ATOM	545	C	ALA	69	37.621	21.484	13.435	1.00 45.82	C
ATOM	546	O	ALA	69	38.516	21.351	14.259	1.00 45.82	O
ATOM	547	N	ASP	70	37.840	21.372	12.113	1.00 65.54	N
ATOM	548	CA	ASP	70	39.110	20.974	11.563	1.00 65.54	C
ATOM	549	CB	ASP	70	39.131	20.997	10.023	1.00 65.54	C
ATOM	550	CG	ASP	70	38.256	19.895	9.450	1.00 65.54	C
ATOM	551	OD1	ASP	70	38.523	18.702	9.746	1.00 65.54	O
ATOM	552	OD2	ASP	70	37.323	20.234	8.676	1.00 65.54	O
ATOM	553	C	ASP	70	40.161	21.966	11.954	1.00 65.54	C
ATOM	554	O	ASP	70	41.296	21.593	12.241	1.00 65.54	O
ATOM	555	N	ALA	71	39.818	23.267	11.922	1.00 33.98	N
ATOM	556	CA	ALA	71	40.754	24.308	12.240	1.00 33.98	C
ATOM	557	CB	ALA	71	40.168	25.717	12.042	1.00 33.98	C
ATOM	558	C	ALA	71	41.147	24.184	13.669	1.00 33.98	C
ATOM	559	O	ALA	71	42.307	24.381	14.028	1.00 33.98	O
ATOM	560	N	CYS	72	40.175	23.865	14.537	1.00 50.20	N
ATOM	561	CA	CYS	72	40.511	23.739	15.916	1.00 50.20	C
ATOM	562	CB	CYS	72	39.311	23.383	16.811	1.00 50.20	C
ATOM	563	SG	CYS	72	38.092	24.726	16.917	1.00 50.20	S
ATOM	564	C	CYS	72	41.471	22.620	16.005	1.00 50.20	C
ATOM	565	O	CYS	72	42.456	22.681	16.724	1.00 50.20	O
ATOM	566	N	PHE	73	41.247	21.539	15.262	1.00165.42	N

ATOM	567	CA	PHE	73	42.146	20.481	15.544	1.00165.42	C
ATOM	568	CB	PHE	73	41.531	19.125	15.235	1.00165.42	C
ATOM	569	CG	PHE	73	40.365	19.340	16.151	1.00165.42	C
ATOM	570	CD1	PHE	73	40.575	19.858	17.404	1.00165.42	C
ATOM	571	CD2	PHE	73	39.065	19.181	15.767	1.00165.42	C
ATOM	572	CE1	PHE	73	39.539	20.107	18.274	1.00165.42	C
ATOM	573	CE2	PHE	73	38.010	19.417	16.616	1.00165.42	C
ATOM	574	CZ	PHE	73	38.244	19.877	17.886	1.00165.42	C
ATOM	575	C	PHE	73	43.527	20.776	15.063	1.00165.42	C
ATOM	576	O	PHE	73	44.498	20.507	15.767	1.00165.42	O
ATOM	577	N	VAL	74	43.676	21.392	13.881	1.00112.57	N
ATOM	578	CA	VAL	74	45.010	21.688	13.461	1.00112.57	C
ATOM	579	CB	VAL	74	45.074	22.313	12.098	1.00112.57	C
ATOM	580	CG1	VAL	74	44.268	23.622	12.076	1.00112.57	C
ATOM	581	CG2	VAL	74	46.555	22.504	11.763	1.00112.57	C
ATOM	582	C	VAL	74	45.657	22.618	14.449	1.00112.57	C
ATOM	583	O	VAL	74	46.771	22.370	14.909	1.00112.57	O
ATOM	584	N	SER	75	44.966	23.715	14.811	1.00 96.11	N
ATOM	585	CA	SER	75	45.529	24.705	15.684	1.00 96.11	C
ATOM	586	CB	SER	75	44.675	25.983	15.755	1.00 96.11	C
ATOM	587	OG	SER	75	45.278	26.922	16.632	1.00 96.11	O
ATOM	588	C	SER	75	45.688	24.205	17.083	1.00 96.11	C
ATOM	589	O	SER	75	46.762	24.324	17.660	1.00 96.11	O
ATOM	590	N	THR	76	44.614	23.708	17.723	1.00179.20	N
ATOM	591	CA	THR	76	44.798	23.320	19.087	1.00179.20	C
ATOM	592	CB	THR	76	43.599	23.511	19.980	1.00179.20	C
ATOM	593	OG1	THR	76	43.908	23.096	21.304	1.00179.20	O
ATOM	594	CG2	THR	76	42.386	22.777	19.433	1.00179.20	C
ATOM	595	C	THR	76	45.509	22.014	19.344	1.00179.20	C
ATOM	596	O	THR	76	46.418	21.987	20.169	1.00179.20	O
ATOM	597	N	THR	77	45.113	20.876	18.728	1.00137.22	N
ATOM	598	CA	THR	77	45.814	19.636	19.018	1.00137.22	C
ATOM	599	CB	THR	77	44.976	18.406	18.801	1.00137.22	C
ATOM	600	OG1	THR	77	45.694	17.261	19.225	1.00137.22	O
ATOM	601	CG2	THR	77	44.622	18.260	17.315	1.00137.22	C
ATOM	602	C	THR	77	47.078	19.444	18.236	1.00137.22	C
ATOM	603	O	THR	77	48.117	19.078	18.786	1.00137.22	O
ATOM	604	N	VAL	78	47.016	19.712	16.918	1.00 68.17	N
ATOM	605	CA	VAL	78	48.102	19.443	16.018	1.00 68.17	C
ATOM	606	CB	VAL	78	47.787	19.839	14.605	1.00 68.17	C
ATOM	607	CG1	VAL	78	49.034	19.593	13.738	1.00 68.17	C
ATOM	608	CG2	VAL	78	46.542	19.062	14.143	1.00 68.17	C
ATOM	609	C	VAL	78	49.380	20.139	16.397	1.00 68.17	C
ATOM	610	O	VAL	78	50.412	19.485	16.257	1.00 68.17	O
ATOM	611	N	PRO	79	49.462	21.395	16.797	1.00 91.97	N
ATOM	612	CA	PRO	79	50.754	21.936	17.097	1.00 91.97	C
ATOM	613	CD	PRO	79	48.456	22.082	17.592	1.00 91.97	C
ATOM	614	CB	PRO	79	50.515	23.344	17.610	1.00 91.97	C
ATOM	615	CG	PRO	79	49.213	23.155	18.396	1.00 91.97	C
ATOM	616	C	PRO	79	51.362	21.145	18.211	1.00 91.97	C
ATOM	617	O	PRO	79	52.582	21.000	18.242	1.00 91.97	O
ATOM	618	N	LYS	80	50.530	20.672	19.158	1.00143.07	N
ATOM	619	CA	LYS	80	51.012	19.960	20.304	1.00143.07	C
ATOM	620	CB	LYS	80	49.891	19.621	21.301	1.00143.07	C
ATOM	621	CG	LYS	80	50.394	19.390	22.729	1.00143.07	C
ATOM	622	CD	LYS	80	51.543	18.387	22.836	1.00143.07	C
ATOM	623	CE	LYS	80	52.914	19.064	22.915	1.00143.07	C
ATOM	624	NZ	LYS	80	53.983	18.048	23.019	1.00143.07	N
ATOM	625	C	LYS	80	51.599	18.661	19.854	1.00143.07	C
ATOM	626	O	LYS	80	52.676	18.269	20.297	1.00143.07	O
ATOM	627	N	MET	81	50.897	17.958	18.946	1.00121.92	N
ATOM	628	CA	MET	81	51.340	16.668	18.502	1.00121.92	C
ATOM	629	CB	MET	81	50.355	16.027	17.507	1.00121.92	C
ATOM	630	CG	MET	81	50.416	14.498	17.415	1.00121.92	C
ATOM	631	SD	MET	81	52.052	13.772	17.102	1.00121.92	S
ATOM	632	CE	MET	81	52.516	13.702	18.858	1.00121.92	C
ATOM	633	C	MET	81	52.642	16.847	17.784	1.00121.92	C
ATOM	634	O	MET	81	53.569	16.057	17.939	1.00121.92	O
ATOM	635	N	LEU	82	52.745	17.904	16.960	1.00103.26	N
ATOM	636	CA	LEU	82	53.944	18.133	16.208	1.00103.26	C
ATOM	637	CB	LEU	82	53.765	19.293	15.207	1.00103.26	C
ATOM	638	CG	LEU	82	54.998	19.629	14.345	1.00103.26	C
ATOM	639	CD1	LEU	82	56.090	20.338	15.156	1.00103.26	C
ATOM	640	CD2	LEU	82	55.515	18.384	13.605	1.00103.26	C
ATOM	641	C	LEU	82	55.055	18.452	17.167	1.00103.26	C
ATOM	642	O	LEU	82	56.167	17.946	17.028	1.00103.26	O
ATOM	643	N	ALA	83	54.774	19.300	18.174	1.00 32.15	N

ATOM	644	CA	ALA	83	55.772	19.684	19.130	1.00	32.15	C
ATOM	645	CB	ALA	83	55.253	20.716	20.147	1.00	32.15	C
ATOM	646	C	ALA	83	56.195	18.472	19.897	1.00	32.15	C
ATOM	647	O	ALA	83	57.375	18.277	20.185	1.00	32.15	O
ATOM	648	N	ASN	84	55.210	17.625	20.239	1.00	91.63	N
ATOM	649	CA	ASN	84	55.371	16.414	20.990	1.00	91.63	C
ATOM	650	CB	ASN	84	54.020	15.735	21.261	1.00	91.63	C
ATOM	651	CG	ASN	84	54.201	14.642	22.300	1.00	91.63	C
ATOM	652	OD1	ASN	84	55.319	14.282	22.664	1.00	91.63	O
ATOM	653	ND2	ASN	84	53.058	14.090	22.787	1.00	91.63	N
ATOM	654	C	ASN	84	56.188	15.477	20.170	1.00	91.63	C
ATOM	655	O	ASN	84	56.876	14.601	20.684	1.00	91.63	O
ATOM	656	N	ILE	85	56.048	15.564	18.846	1.00	68.24	N
ATOM	657	CA	ILE	85	56.844	14.743	17.995	1.00	68.24	C
ATOM	658	CB	ILE	85	56.465	14.877	16.571	1.00	68.24	C
ATOM	659	CG2	ILE	85	57.540	14.092	15.836	1.00	68.24	C
ATOM	660	CG1	ILE	85	55.026	14.425	16.286	1.00	68.24	C
ATOM	661	CD1	ILE	85	54.498	14.947	14.949	1.00	68.24	C
ATOM	662	C	ILE	85	58.275	15.193	18.026	1.00	68.24	C
ATOM	663	O	ILE	85	59.191	14.380	18.135	1.00	68.24	O
ATOM	664	N	GLN	86	58.495	16.521	17.921	1.00	110.66	N
ATOM	665	CA	GLN	86	59.822	17.062	17.786	1.00	110.66	C
ATOM	666	CB	GLN	86	59.827	18.593	17.641	1.00	110.66	C
ATOM	667	CG	GLN	86	61.233	19.181	17.497	1.00	110.66	C
ATOM	668	CD	GLN	86	61.104	20.691	17.363	1.00	110.66	C
ATOM	669	OE1	GLN	86	61.743	21.309	16.514	1.00	110.66	O
ATOM	670	NE2	GLN	86	60.258	21.307	18.234	1.00	110.66	N
ATOM	671	C	GLN	86	60.629	16.730	18.995	1.00	110.66	C
ATOM	672	O	GLN	86	61.765	16.271	18.888	1.00	110.66	O
ATOM	673	N	ILE	87	60.062	16.953	20.191	1.00	317.70	N
ATOM	674	CA	ILE	87	60.758	16.571	21.378	1.00	317.70	C
ATOM	675	CB	ILE	87	60.729	17.613	22.470	1.00	317.70	C
ATOM	676	CG2	ILE	87	59.274	18.030	22.747	1.00	317.70	C
ATOM	677	CG1	ILE	87	61.500	17.115	23.700	1.00	317.70	C
ATOM	678	CD1	ILE	87	63.002	16.976	23.458	1.00	317.70	C
ATOM	679	C	ILE	87	60.013	15.363	21.804	1.00	317.70	C
ATOM	680	O	ILE	87	58.811	15.438	22.014	1.00	317.70	O
ATOM	681	N	GLN	88	60.711	14.235	22.008	1.00	84.60	N
ATOM	682	CA	GLN	88	60.066	12.958	22.115	1.00	84.60	C
ATOM	683	CB	GLN	88	61.067	11.832	22.428	1.00	84.60	C
ATOM	684	CG	GLN	88	62.165	11.741	21.362	1.00	84.60	C
ATOM	685	CD	GLN	88	62.931	10.441	21.540	1.00	84.60	C
ATOM	686	OE1	GLN	88	64.158	10.432	21.627	1.00	84.60	O
ATOM	687	NE2	GLN	88	62.183	9.306	21.570	1.00	84.60	N
ATOM	688	C	GLN	88	58.992	12.978	23.156	1.00	84.60	C
ATOM	689	O	GLN	88	57.922	12.408	22.947	1.00	84.60	O
ATOM	690	N	SER	89	59.220	13.649	24.292	1.00	64.96	N
ATOM	691	CA	SER	89	58.192	13.678	25.292	1.00	64.96	C
ATOM	692	CB	SER	89	58.724	13.811	26.727	1.00	64.96	C
ATOM	693	OG	SER	89	59.352	15.073	26.900	1.00	64.96	O
ATOM	694	C	SER	89	57.303	14.857	25.072	1.00	64.96	C
ATOM	695	O	SER	89	57.525	15.680	24.186	1.00	64.96	O
ATOM	696	N	GLN	90	56.236	14.945	25.891	1.00	65.89	N
ATOM	697	CA	GLN	90	55.348	16.065	25.824	1.00	65.89	C
ATOM	698	CB	GLN	90	53.948	15.742	26.365	1.00	65.89	C
ATOM	699	CG	GLN	90	53.256	14.614	25.598	1.00	65.89	C
ATOM	700	CD	GLN	90	51.901	14.367	26.238	1.00	65.89	C
ATOM	701	OE1	GLN	90	50.868	14.766	25.703	1.00	65.89	O
ATOM	702	NE2	GLN	90	51.901	13.689	27.418	1.00	65.89	N
ATOM	703	C	GLN	90	55.945	17.085	26.737	1.00	65.89	C
ATOM	704	O	GLN	90	55.991	16.879	27.949	1.00	65.89	O
ATOM	705	N	ALA	91	56.395	18.227	26.179	1.00	59.31	N
ATOM	706	CA	ALA	91	57.049	19.215	26.989	1.00	59.31	C
ATOM	707	CB	ALA	91	57.434	20.477	26.199	1.00	59.31	C
ATOM	708	C	ALA	91	56.071	19.619	28.033	1.00	59.31	C
ATOM	709	O	ALA	91	56.403	19.697	29.215	1.00	59.31	O
ATOM	710	N	ILE	92	54.816	19.857	27.624	1.00	261.95	N
ATOM	711	CA	ILE	92	53.831	20.103	28.625	1.00	261.95	C
ATOM	712	CB	ILE	92	52.818	21.152	28.236	1.00	261.95	C
ATOM	713	CG2	ILE	92	53.562	22.494	28.141	1.00	261.95	C
ATOM	714	CG1	ILE	92	52.056	20.784	26.952	1.00	261.95	C
ATOM	715	CD1	ILE	92	50.866	21.699	26.667	1.00	261.95	C
ATOM	716	C	ILE	92	53.205	18.765	28.805	1.00	261.95	C
ATOM	717	O	ILE	92	52.489	18.273	27.940	1.00	261.95	O
ATOM	718	N	SER	93	53.511	18.113	29.940	1.00	121.43	N
ATOM	719	CA	SER	93	53.119	16.746	30.115	1.00	121.43	C
ATOM	720	CB	SER	93	53.484	16.197	31.505	1.00	121.43	C

ATOM	721	OG	SER	93	53.066	14.845	31.619	1.00121.43	O
ATOM	722	C	SER	93	51.645	16.557	29.938	1.00121.43	C
ATOM	723	O	SER	93	51.157	16.318	28.835	1.00121.43	O
ATOM	724	N	TYR	94	50.891	16.686	31.039	1.00 97.74	N
ATOM	725	CA	TYR	94	49.488	16.403	31.015	1.00 97.74	C
ATOM	726	CB	TYR	94	48.866	16.364	32.420	1.00 97.74	C
ATOM	727	CG	TYR	94	49.448	15.166	33.088	1.00 97.74	C
ATOM	728	CD1	TYR	94	48.909	13.918	32.870	1.00 97.74	C
ATOM	729	CD2	TYR	94	50.538	15.283	33.922	1.00 97.74	C
ATOM	730	CE1	TYR	94	49.441	12.806	33.478	1.00 97.74	C
ATOM	731	CE2	TYR	94	51.075	14.173	34.532	1.00 97.74	C
ATOM	732	CZ	TYR	94	50.527	12.933	34.310	1.00 97.74	C
ATOM	733	OH	TYR	94	51.076	11.793	34.935	1.00 97.74	O
ATOM	734	C	TYR	94	48.758	17.402	30.183	1.00 97.74	C
ATOM	735	O	TYR	94	47.861	17.046	29.418	1.00 97.74	O
ATOM	736	N	SER	95	49.131	18.686	30.306	1.00 30.13	N
ATOM	737	CA	SER	95	48.411	19.714	29.616	1.00 30.13	C
ATOM	738	CB	SER	95	49.001	21.112	29.860	1.00 30.13	C
ATOM	739	OG	SER	95	48.913	21.443	31.238	1.00 30.13	O
ATOM	740	C	SER	95	48.476	19.455	28.147	1.00 30.13	C
ATOM	741	O	SER	95	47.458	19.487	27.456	1.00 30.13	O
ATOM	742	N	GLY	96	49.683	19.163	27.635	1.00 26.85	N
ATOM	743	CA	GLY	96	49.847	18.967	26.226	1.00 26.85	C
ATOM	744	C	GLY	96	49.045	17.785	25.804	1.00 26.85	C
ATOM	745	O	GLY	96	48.484	17.762	24.711	1.00 26.85	O
ATOM	746	N	CYS	97	49.007	16.753	26.663	1.00 54.23	N
ATOM	747	CA	CYS	97	48.320	15.542	26.349	1.00 54.23	C
ATOM	748	CB	CYS	97	48.559	14.439	27.394	1.00 54.23	C
ATOM	749	SG	CYS	97	48.037	12.830	26.747	1.00 54.23	S
ATOM	750	C	CYS	97	46.853	15.816	26.267	1.00 54.23	C
ATOM	751	O	CYS	97	46.150	15.224	25.449	1.00 54.23	O
ATOM	752	N	LEU	98	46.355	16.714	27.138	1.00131.40	N
ATOM	753	CA	LEU	98	44.964	17.062	27.199	1.00131.40	C
ATOM	754	CB	LEU	98	44.698	18.082	28.320	1.00131.40	C
ATOM	755	CG	LEU	98	43.232	18.529	28.465	1.00131.40	C
ATOM	756	CD1	LEU	98	42.354	17.390	29.013	1.00131.40	C
ATOM	757	CD2	LEU	98	43.119	19.815	29.297	1.00131.40	C
ATOM	758	C	LEU	98	44.574	17.723	25.913	1.00131.40	C
ATOM	759	O	LEU	98	43.565	17.377	25.300	1.00131.40	O
ATOM	760	N	LEU	99	45.390	18.698	25.460	1.00 43.29	N
ATOM	761	CA	LEU	99	45.068	19.434	24.277	1.00 43.29	C
ATOM	762	CB	LEU	99	46.092	20.545	23.974	1.00 43.29	C
ATOM	763	CG	LEU	99	46.154	21.639	25.055	1.00 43.29	C
ATOM	764	CD1	LEU	99	47.190	22.718	24.700	1.00 43.29	C
ATOM	765	CD2	LEU	99	44.762	22.224	25.344	1.00 43.29	C
ATOM	766	C	LEU	99	45.078	18.498	23.118	1.00 43.29	C
ATOM	767	O	LEU	99	44.169	18.501	22.288	1.00 43.29	O
ATOM	768	N	GLN	100	46.104	17.639	23.045	1.00104.05	N
ATOM	769	CA	GLN	100	46.205	16.778	21.914	1.00104.05	C
ATOM	770	CB	GLN	100	47.461	15.900	21.930	1.00104.05	C
ATOM	771	CG	GLN	100	47.599	15.083	20.648	1.00104.05	C
ATOM	772	CD	GLN	100	48.815	14.193	20.794	1.00104.05	C
ATOM	773	OE1	GLN	100	48.801	13.044	20.361	1.00104.05	O
ATOM	774	NE2	GLN	100	49.897	14.730	21.419	1.00104.05	N
ATOM	775	C	GLN	100	45.023	15.859	21.865	1.00104.05	C
ATOM	776	O	GLN	100	44.403	15.694	20.817	1.00104.05	O
ATOM	777	N	LEU	101	44.673	15.237	23.006	1.00147.44	N
ATOM	778	CA	LEU	101	43.599	14.286	23.041	1.00147.44	C
ATOM	779	CB	LEU	101	43.571	13.515	24.376	1.00147.44	C
ATOM	780	CG	LEU	101	42.375	12.562	24.561	1.00147.44	C
ATOM	781	CD1	LEU	101	41.109	13.316	24.996	1.00147.44	C
ATOM	782	CD2	LEU	101	42.139	11.724	23.295	1.00147.44	C
ATOM	783	C	LEU	101	42.254	14.911	22.805	1.00147.44	C
ATOM	784	O	LEU	101	41.486	14.436	21.969	1.00147.44	O
ATOM	785	N	TYR	102	41.945	16.019	23.505	1.00 65.59	N
ATOM	786	CA	TYR	102	40.621	16.579	23.468	1.00 65.59	C
ATOM	787	CB	TYR	102	40.500	17.805	24.392	1.00 65.59	C
ATOM	788	CG	TYR	102	39.138	18.398	24.262	1.00 65.59	C
ATOM	789	CD1	TYR	102	38.074	17.891	24.971	1.00 65.59	C
ATOM	790	CD2	TYR	102	38.929	19.477	23.434	1.00 65.59	C
ATOM	791	CE1	TYR	102	36.823	18.448	24.848	1.00 65.59	C
ATOM	792	CE2	TYR	102	37.679	20.038	23.308	1.00 65.59	C
ATOM	793	CZ	TYR	102	36.622	19.523	24.016	1.00 65.59	C
ATOM	794	OH	TYR	102	35.338	20.094	23.891	1.00 65.59	O
ATOM	795	C	TYR	102	40.267	17.019	22.090	1.00 65.59	C
ATOM	796	O	TYR	102	39.202	16.703	21.562	1.00 65.59	O
ATOM	797	N	PHE	103	41.182	17.753	21.457	1.00 91.33	N

ATOM	798	CA	PHE	103	40.908	18.337	20.191	1.00	91.33	C
ATOM	799	CB	PHE	103	41.983	19.383	19.913	1.00	91.33	C
ATOM	800	CG	PHE	103	41.656	20.393	20.964	1.00	91.33	C
ATOM	801	CD1	PHE	103	40.469	21.090	20.895	1.00	91.33	C
ATOM	802	CD2	PHE	103	42.518	20.666	22.000	1.00	91.33	C
ATOM	803	CE1	PHE	103	40.142	22.028	21.846	1.00	91.33	C
ATOM	804	CE2	PHE	103	42.198	21.602	22.955	1.00	91.33	C
ATOM	805	CZ	PHE	103	41.009	22.285	22.880	1.00	91.33	C
ATOM	806	C	PHE	103	40.734	17.284	19.133	1.00	91.33	C
ATOM	807	O	PHE	103	39.850	17.386	18.284	1.00	91.33	O
ATOM	808	N	PHE	104	41.549	16.219	19.145	1.00	120.45	N
ATOM	809	CA	PHE	104	41.374	15.232	18.119	1.00	120.45	C
ATOM	810	CB	PHE	104	42.449	14.124	18.131	1.00	120.45	C
ATOM	811	CG	PHE	104	41.825	12.833	18.545	1.00	120.45	C
ATOM	812	CD1	PHE	104	41.264	12.007	17.596	1.00	120.45	C
ATOM	813	CD2	PHE	104	41.798	12.442	19.863	1.00	120.45	C
ATOM	814	CE1	PHE	104	40.684	10.814	17.951	1.00	120.45	C
ATOM	815	CE2	PHE	104	41.218	11.247	20.225	1.00	120.45	C
ATOM	816	CZ	PHE	104	40.660	10.431	19.270	1.00	120.45	C
ATOM	817	C	PHE	104	40.033	14.585	18.319	1.00	120.45	C
ATOM	818	O	PHE	104	39.326	14.304	17.353	1.00	120.45	O
ATOM	819	N	MET	105	39.658	14.309	19.587	1.00	74.84	N
ATOM	820	CA	MET	105	38.411	13.652	19.871	1.00	74.84	C
ATOM	821	CB	MET	105	38.180	13.376	21.366	1.00	74.84	C
ATOM	822	CG	MET	105	39.205	12.450	22.015	1.00	74.84	C
ATOM	823	SD	MET	105	38.722	11.895	23.676	1.00	74.84	S
ATOM	824	CE	MET	105	38.263	13.548	24.274	1.00	74.84	C
ATOM	825	C	MET	105	37.284	14.538	19.459	1.00	74.84	C
ATOM	826	O	MET	105	36.316	14.095	18.841	1.00	74.84	O
ATOM	827	N	LEU	106	37.407	15.835	19.774	1.00	108.82	N
ATOM	828	CA	LEU	106	36.357	16.766	19.509	1.00	108.82	C
ATOM	829	CB	LEU	106	36.751	18.185	19.968	1.00	108.82	C
ATOM	830	CG	LEU	106	35.602	19.208	20.039	1.00	108.82	C
ATOM	831	CD1	LEU	106	36.111	20.582	20.505	1.00	108.82	C
ATOM	832	CD2	LEU	106	34.816	19.284	18.728	1.00	108.82	C
ATOM	833	C	LEU	106	36.150	16.751	18.024	1.00	108.82	C
ATOM	834	O	LEU	106	35.013	16.781	17.553	1.00	108.82	O
ATOM	835	N	PHE	107	37.255	16.686	17.250	1.00	131.09	N
ATOM	836	CA	PHE	107	37.195	16.695	15.812	1.00	131.09	C
ATOM	837	CB	PHE	107	38.527	16.420	15.099	1.00	131.09	C
ATOM	838	CG	PHE	107	38.125	16.290	13.674	1.00	131.09	C
ATOM	839	CD1	PHE	107	37.616	17.379	13.007	1.00	131.09	C
ATOM	840	CD2	PHE	107	38.256	15.095	13.004	1.00	131.09	C
ATOM	841	CE1	PHE	107	37.231	17.279	11.693	1.00	131.09	C
ATOM	842	CE2	PHE	107	37.873	14.992	11.687	1.00	131.09	C
ATOM	843	CZ	PHE	107	37.359	16.083	11.030	1.00	131.09	C
ATOM	844	C	PHE	107	36.440	15.537	15.280	1.00	131.09	C
ATOM	845	O	PHE	107	35.505	15.694	14.497	1.00	131.09	O
ATOM	846	N	VAL	108	36.873	14.331	15.676	1.00	98.22	N
ATOM	847	CA	VAL	108	36.332	13.142	15.101	1.00	98.22	C
ATOM	848	CB	VAL	108	37.004	11.892	15.602	1.00	98.22	C
ATOM	849	CG1	VAL	108	38.471	11.918	15.141	1.00	98.22	C
ATOM	850	CG2	VAL	108	36.847	11.804	17.131	1.00	98.22	C
ATOM	851	C	VAL	108	34.884	13.059	15.431	1.00	98.22	C
ATOM	852	O	VAL	108	34.060	12.718	14.584	1.00	98.22	O
ATOM	853	N	MET	109	34.552	13.387	16.688	1.00	103.59	N
ATOM	854	CA	MET	109	33.223	13.300	17.201	1.00	103.59	C
ATOM	855	CB	MET	109	33.197	13.567	18.714	1.00	103.59	C
ATOM	856	CG	MET	109	33.988	12.521	19.503	1.00	103.59	C
ATOM	857	SD	MET	109	33.347	10.826	19.347	1.00	103.59	S
ATOM	858	CE	MET	109	34.721	10.039	20.236	1.00	103.59	C
ATOM	859	C	MET	109	32.329	14.273	16.494	1.00	103.59	C
ATOM	860	O	MET	109	31.162	13.972	16.251	1.00	103.59	O
ATOM	861	N	LEU	110	32.833	15.480	16.170	1.00	52.13	N
ATOM	862	CA	LEU	110	32.025	16.461	15.494	1.00	52.13	C
ATOM	863	CB	LEU	110	32.741	17.795	15.228	1.00	52.13	C
ATOM	864	CG	LEU	110	33.016	18.627	16.488	1.00	52.13	C
ATOM	865	CD1	LEU	110	33.632	19.988	16.122	1.00	52.13	C
ATOM	866	CD2	LEU	110	31.758	18.759	17.363	1.00	52.13	C
ATOM	867	C	LEU	110	31.650	15.921	14.161	1.00	52.13	C
ATOM	868	O	LEU	110	30.534	16.128	13.684	1.00	52.13	O
ATOM	869	N	GLU	111	32.602	15.232	13.512	1.00	81.27	N
ATOM	870	CA	GLU	111	32.360	14.691	12.213	1.00	81.27	C
ATOM	871	CB	GLU	111	33.604	14.022	11.603	1.00	81.27	C
ATOM	872	CG	GLU	111	33.358	13.432	10.213	1.00	81.27	C
ATOM	873	CD	GLU	111	34.653	12.786	9.739	1.00	81.27	C
ATOM	874	OE1	GLU	111	35.255	12.018	10.536	1.00	81.27	O

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ATOM	875	OE2	GLU	111	35.058	13.053	8.576	1.00	81.27	O
ATOM	876	C	GLU	111	31.310	13.628	12.319	1.00	81.27	C
ATOM	877	O	GLU	111	30.377	13.591	11.518	1.00	81.27	O
ATOM	878	N	ALA	112	31.421	12.745	13.334	1.00	39.41	N
ATOM	879	CA	ALA	112	30.515	11.636	13.442	1.00	39.41	C
ATOM	880	CB	ALA	112	30.843	10.720	14.634	1.00	39.41	C
ATOM	881	C	ALA	112	29.112	12.120	13.626	1.00	39.41	C
ATOM	882	O	ALA	112	28.200	11.658	12.944	1.00	39.41	O
ATOM	883	N	PHE	113	28.902	13.082	14.540	1.00	57.31	N
ATOM	884	CA	PHE	113	27.584	13.592	14.797	1.00	57.31	C
ATOM	885	CB	PHE	113	27.493	14.467	16.057	1.00	57.31	C
ATOM	886	CG	PHE	113	27.417	13.505	17.194	1.00	57.31	C
ATOM	887	CD1	PHE	113	28.538	12.848	17.642	1.00	57.31	C
ATOM	888	CD2	PHE	113	26.211	13.256	17.808	1.00	57.31	C
ATOM	889	CE1	PHE	113	28.460	11.960	18.689	1.00	57.31	C
ATOM	890	CE2	PHE	113	26.125	12.369	18.855	1.00	57.31	C
ATOM	891	CZ	PHE	113	27.252	11.719	19.298	1.00	57.31	C
ATOM	892	C	PHE	113	27.082	14.348	13.614	1.00	57.31	C
ATOM	893	O	PHE	113	25.891	14.325	13.313	1.00	57.31	O
ATOM	894	N	LEU	114	27.985	15.046	12.911	1.00151.08		N
ATOM	895	CA	LEU	114	27.596	15.836	11.780	1.00151.08		C
ATOM	896	CB	LEU	114	28.807	16.553	11.144	1.00151.08		C
ATOM	897	CG	LEU	114	28.459	17.559	10.030	1.00151.08		C
ATOM	898	CD1	LEU	114	27.905	16.874	8.770	1.00151.08		C
ATOM	899	CD2	LEU	114	27.542	18.665	10.572	1.00151.08		C
ATOM	900	C	LEU	114	27.005	14.902	10.769	1.00151.08		C
ATOM	901	O	LEU	114	26.084	15.263	10.039	1.00151.08		O
ATOM	902	N	LEU	115	27.549	13.675	10.690	1.00138.94		N
ATOM	903	CA	LEU	115	27.116	12.691	9.740	1.00138.94		C
ATOM	904	CB	LEU	115	28.052	11.473	9.726	1.00138.94		C
ATOM	905	CG	LEU	115	27.814	10.530	8.541	1.00138.94		C
ATOM	906	CD1	LEU	115	28.051	11.254	7.207	1.00138.94		C
ATOM	907	CD2	LEU	115	28.689	9.277	8.664	1.00138.94		C
ATOM	908	C	LEU	115	25.715	12.244	10.053	1.00138.94		C
ATOM	909	O	LEU	115	24.925	11.986	9.146	1.00138.94		O
ATOM	910	N	ALA	116	25.373	12.110	11.350	1.00	28.95	N
ATOM	911	CA	ALA	116	24.057	11.681	11.737	1.00	28.95	C
ATOM	912	CB	ALA	116	23.905	11.526	13.260	1.00	28.95	C
ATOM	913	C	ALA	116	23.068	12.707	11.290	1.00	28.95	C
ATOM	914	O	ALA	116	21.997	12.375	10.784	1.00	28.95	O
ATOM	915	N	VAL	117	23.417	13.995	11.462	1.00	29.82	N
ATOM	916	CA	VAL	117	22.533	15.065	11.108	1.00	29.82	C
ATOM	917	CB	VAL	117	23.121	16.409	11.390	1.00	29.82	C
ATOM	918	CG1	VAL	117	22.149	17.463	10.848	1.00	29.82	C
ATOM	919	CG2	VAL	117	23.399	16.525	12.899	1.00	29.82	C
ATOM	920	C	VAL	117	22.274	14.993	9.639	1.00	29.82	C
ATOM	921	O	VAL	117	21.135	15.119	9.191	1.00	29.82	O
ATOM	922	N	MET	118	23.337	14.765	8.850	1.00150.09		N
ATOM	923	CA	MET	118	23.215	14.687	7.427	1.00150.09		C
ATOM	924	CB	MET	118	24.569	14.418	6.741	1.00150.09		C
ATOM	925	CG	MET	118	24.471	13.984	5.274	1.00150.09		C
ATOM	926	SD	MET	118	24.104	12.214	5.026	1.00150.09		S
ATOM	927	CE	MET	118	25.801	11.654	5.344	1.00150.09		C
ATOM	928	C	MET	118	22.312	13.552	7.099	1.00150.09		C
ATOM	929	O	MET	118	21.474	13.659	6.208	1.00150.09		O
ATOM	930	N	ALA	119	22.453	12.423	7.811	1.00	29.58	N
ATOM	931	CA	ALA	119	21.655	11.283	7.479	1.00	29.58	C
ATOM	932	CB	ALA	119	21.910	10.087	8.412	1.00	29.58	C
ATOM	933	C	ALA	119	20.220	11.672	7.625	1.00	29.58	C
ATOM	934	O	ALA	119	19.393	11.330	6.781	1.00	29.58	O
ATOM	935	N	TYR	120	19.887	12.403	8.705	1.00150.06		N
ATOM	936	CA	TYR	120	18.527	12.799	8.933	1.00150.06		C
ATOM	937	CB	TYR	120	18.339	13.510	10.285	1.00150.06		C
ATOM	938	CG	TYR	120	16.955	14.062	10.317	1.00150.06		C
ATOM	939	CD1	TYR	120	15.883	13.270	10.659	1.00150.06		C
ATOM	940	CD2	TYR	120	16.731	15.383	10.003	1.00150.06		C
ATOM	941	CE1	TYR	120	14.609	13.789	10.687	1.00150.06		C
ATOM	942	CE2	TYR	120	15.461	15.908	10.028	1.00150.06		C
ATOM	943	CZ	TYR	120	14.397	15.110	10.370	1.00150.06		C
ATOM	944	OH	TYR	120	13.092	15.644	10.397	1.00150.06		O
ATOM	945	C	TYR	120	18.068	13.752	7.875	1.00150.06		C
ATOM	946	O	TYR	120	17.050	13.520	7.225	1.00150.06		O
ATOM	947	N	ASP	121	18.842	14.826	7.628	1.00	42.62	N
ATOM	948	CA	ASP	121	18.402	15.820	6.694	1.00	42.62	C
ATOM	949	CB	ASP	121	19.392	16.983	6.514	1.00	42.62	C
ATOM	950	CG	ASP	121	19.378	17.829	7.779	1.00	42.62	C
ATOM	951	OD1	ASP	121	18.858	17.333	8.814	1.00	42.62	O

ATOM	952	OD2	ASP	121	19.890	18.980	7.727	1.00	42.62	O
ATOM	953	C	ASP	121	18.265	15.155	5.371	1.00	42.62	C
ATOM	954	O	ASP	121	17.326	15.410	4.620	1.00	42.62	O
ATOM	955	N	CYS	122	19.209	14.257	5.063	1.00	34.52	N
ATOM	956	CA	CYS	122	19.190	13.587	3.805	1.00	34.52	C
ATOM	957	CB	CYS	122	20.349	12.594	3.644	1.00	34.52	C
ATOM	958	SG	CYS	122	20.306	11.751	2.036	1.00	34.52	S
ATOM	959	C	CYS	122	17.917	12.811	3.732	1.00	34.52	C
ATOM	960	O	CYS	122	17.251	12.786	2.699	1.00	34.52	O
ATOM	961	N	TYR	123	17.553	12.160	4.852	1.00	55.68	N
ATOM	962	CA	TYR	123	16.378	11.340	4.929	1.00	55.68	C
ATOM	963	CB	TYR	123	16.275	10.673	6.313	1.00	55.68	C
ATOM	964	CG	TYR	123	15.027	9.864	6.397	1.00	55.68	C
ATOM	965	CD1	TYR	123	15.000	8.565	5.944	1.00	55.68	C
ATOM	966	CD2	TYR	123	13.884	10.404	6.941	1.00	55.68	C
ATOM	967	CE1	TYR	123	13.847	7.820	6.031	1.00	55.68	C
ATOM	968	CE2	TYR	123	12.729	9.664	7.028	1.00	55.68	C
ATOM	969	CZ	TYR	123	12.710	8.369	6.572	1.00	55.68	C
ATOM	970	OH	TYR	123	11.526	7.606	6.661	1.00	55.68	O
ATOM	971	C	TYR	123	15.160	12.184	4.744	1.00	55.68	C
ATOM	972	O	TYR	123	14.296	11.876	3.926	1.00	55.68	O
ATOM	973	N	VAL	124	15.083	13.309	5.473	1.00	99.89	N
ATOM	974	CA	VAL	124	13.896	14.105	5.443	1.00	99.89	C
ATOM	975	CB	VAL	124	13.953	15.292	6.362	1.00	99.89	C
ATOM	976	CG1	VAL	124	15.035	16.263	5.867	1.00	99.89	C
ATOM	977	CG2	VAL	124	12.549	15.911	6.436	1.00	99.89	C
ATOM	978	C	VAL	124	13.662	14.595	4.054	1.00	99.89	C
ATOM	979	O	VAL	124	12.521	14.654	3.607	1.00	99.89	O
ATOM	980	N	ALA	125	14.722	15.020	3.345	1.00	52.81	N
ATOM	981	CA	ALA	125	14.514	15.501	2.010	1.00	52.81	C
ATOM	982	CB	ALA	125	15.769	16.166	1.420	1.00	52.81	C
ATOM	983	C	ALA	125	14.119	14.396	1.072	1.00	52.81	C
ATOM	984	O	ALA	125	13.136	14.522	0.343	1.00	52.81	O
ATOM	985	N	ILE	126	14.878	13.277	1.064	1.00	107.89	N
ATOM	986	CA	ILE	126	14.618	12.250	0.089	1.00	107.89	C
ATOM	987	CB	ILE	126	15.695	11.205	0.057	1.00	107.89	C
ATOM	988	CG2	ILE	126	15.245	10.089	-0.901	1.00	107.89	C
ATOM	989	CG1	ILE	126	17.039	11.844	-0.330	1.00	107.89	C
ATOM	990	CD1	ILE	126	17.020	12.517	-1.702	1.00	107.89	C
ATOM	991	C	ILE	126	13.329	11.547	0.365	1.00	107.89	C
ATOM	992	O	ILE	126	12.423	11.538	-0.465	1.00	107.89	O
ATOM	993	N	CYS	127	13.198	10.968	1.571	1.00	53.32	N
ATOM	994	CA	CYS	127	12.003	10.250	1.896	1.00	53.32	C
ATOM	995	CB	CYS	127	12.111	9.460	3.208	1.00	53.32	C
ATOM	996	SG	CYS	127	13.250	8.054	3.027	1.00	53.32	S
ATOM	997	C	CYS	127	10.897	11.244	1.990	1.00	53.32	C
ATOM	998	O	CYS	127	9.763	10.965	1.608	1.00	53.32	O
ATOM	999	N	HIS	128	11.215	12.447	2.500	1.00	63.95	N
ATOM	1000	CA	HIS	128	10.256	13.508	2.602	1.00	63.95	C
ATOM	1001	ND1	HIS	128	9.738	16.591	1.434	1.00	63.95	N
ATOM	1002	CG	HIS	128	9.103	15.372	1.331	1.00	63.95	C
ATOM	1003	CB	HIS	128	9.826	14.064	1.233	1.00	63.95	C
ATOM	1004	NE2	HIS	128	7.555	17.009	1.440	1.00	63.95	N
ATOM	1005	CD2	HIS	128	7.771	15.646	1.336	1.00	63.95	C
ATOM	1006	CE1	HIS	128	8.765	17.535	1.496	1.00	63.95	C
ATOM	1007	C	HIS	128	9.046	13.028	3.336	1.00	63.95	C
ATOM	1008	O	HIS	128	7.919	13.151	2.859	1.00	63.95	O
ATOM	1009	N	PRO	129	9.269	12.489	4.501	1.00	161.06	N
ATOM	1010	CA	PRO	129	8.213	11.935	5.306	1.00	161.06	C
ATOM	1011	CD	PRO	129	10.432	12.851	5.295	1.00	161.06	C
ATOM	1012	CB	PRO	129	8.875	11.558	6.629	1.00	161.06	C
ATOM	1013	CG	PRO	129	10.019	12.582	6.751	1.00	161.06	C
ATOM	1014	C	PRO	129	7.072	12.883	5.527	1.00	161.06	C
ATOM	1015	O	PRO	129	5.926	12.437	5.491	1.00	161.06	O
ATOM	1016	N	LEU	130	7.345	14.179	5.774	1.00	44.21	N
ATOM	1017	CA	LEU	130	6.287	15.108	6.050	1.00	44.21	C
ATOM	1018	CB	LEU	130	6.770	16.337	6.837	1.00	44.21	C
ATOM	1019	CG	LEU	130	7.293	15.938	8.233	1.00	44.21	C
ATOM	1020	CD1	LEU	130	7.780	17.150	9.042	1.00	44.21	C
ATOM	1021	CD2	LEU	130	6.247	15.105	8.992	1.00	44.21	C
ATOM	1022	C	LEU	130	5.677	15.539	4.753	1.00	44.21	C
ATOM	1023	O	LEU	130	6.313	15.459	3.703	1.00	44.21	O
ATOM	1024	N	HIS	131	4.404	15.992	4.794	1.00	60.90	N
ATOM	1025	CA	HIS	131	3.755	16.384	3.576	1.00	60.90	C
ATOM	1026	ND1	HIS	131	0.616	15.135	3.415	1.00	60.90	N
ATOM	1027	CG	HIS	131	1.345	15.941	4.261	1.00	60.90	C
ATOM	1028	CB	HIS	131	2.345	16.958	3.795	1.00	60.90	C

ATOM	1029	NE2	HIS	131	-0.007	14.612	5.484	1.00	60.90	N
ATOM	1030	CD2	HIS	131	0.951	15.609	5.521	1.00	60.90	C
ATOM	1031	CE1	HIS	131	-0.177	14.360	4.198	1.00	60.90	C
ATOM	1032	C	HIS	131	4.580	17.466	2.976	1.00	60.90	C
ATOM	1033	O	HIS	131	4.991	17.377	1.820	1.00	60.90	O
ATOM	1034	N	TYR	132	4.840	18.533	3.750	1.00205.55		N
ATOM	1035	CA	TYR	132	5.743	19.527	3.269	1.00205.55		C
ATOM	1036	CB	TYR	132	5.130	20.528	2.263	1.00205.55		C
ATOM	1037	CG	TYR	132	4.049	21.341	2.891	1.00205.55		C
ATOM	1038	CD1	TYR	132	2.761	20.859	2.949	1.00205.55		C
ATOM	1039	CD2	TYR	132	4.317	22.586	3.413	1.00205.55		C
ATOM	1040	CE1	TYR	132	1.759	21.606	3.523	1.00205.55		C
ATOM	1041	CE2	TYR	132	3.320	23.338	3.988	1.00205.55		C
ATOM	1042	CZ	TYR	132	2.038	22.846	4.044	1.00205.55		C
ATOM	1043	OH	TYR	132	1.011	23.615	4.632	1.00205.55		O
ATOM	1044	C	TYR	132	6.253	20.245	4.466	1.00205.55		C
ATOM	1045	O	TYR	132	5.502	20.884	5.200	1.00205.55		O
ATOM	1046	N	ILE	133	7.563	20.109	4.727	1.00120.33		N
ATOM	1047	CA	ILE	133	8.110	20.809	5.841	1.00120.33		C
ATOM	1048	CB	ILE	133	8.259	19.966	7.072	1.00120.33		C
ATOM	1049	CG2	ILE	133	9.056	20.773	8.111	1.00120.33		C
ATOM	1050	CG1	ILE	133	6.870	19.527	7.565	1.00120.33		C
ATOM	1051	CD1	ILE	133	5.964	20.696	7.950	1.00120.33		C
ATOM	1052	C	ILE	133	9.456	21.288	5.445	1.00120.33		C
ATOM	1053	O	ILE	133	10.221	20.567	4.807	1.00120.33		O
ATOM	1054	N	LEU	134	9.770	22.543	5.800	1.00	78.87	N
ATOM	1055	CA	LEU	134	11.079	23.021	5.513	1.00	78.87	C
ATOM	1056	CB	LEU	134	11.135	24.540	5.286	1.00	78.87	C
ATOM	1057	CG	LEU	134	10.329	25.010	4.062	1.00	78.87	C
ATOM	1058	CD1	LEU	134	10.424	26.533	3.879	1.00	78.87	C
ATOM	1059	CD2	LEU	134	10.725	24.230	2.800	1.00	78.87	C
ATOM	1060	C	LEU	134	11.842	22.730	6.746	1.00	78.87	C
ATOM	1061	O	LEU	134	12.162	23.620	7.532	1.00	78.87	O
ATOM	1062	N	ILE	135	12.151	21.442	6.935	1.00156.90		N
ATOM	1063	CA	ILE	135	12.913	21.049	8.068	1.00156.90		C
ATOM	1064	CB	ILE	135	13.157	19.567	8.139	1.00156.90		C
ATOM	1065	CG2	ILE	135	13.946	19.140	6.891	1.00156.90		C
ATOM	1066	CG1	ILE	135	13.839	19.207	9.470	1.00156.90		C
ATOM	1067	CD1	ILE	135	12.953	19.442	10.694	1.00156.90		C
ATOM	1068	C	ILE	135	14.208	21.739	7.880	1.00156.90		C
ATOM	1069	O	ILE	135	14.858	22.160	8.834	1.00156.90		O
ATOM	1070	N	MET	136	14.613	21.870	6.606	1.00106.38		N
ATOM	1071	CA	MET	136	15.886	22.450	6.358	1.00106.38		C
ATOM	1072	CB	MET	136	16.515	21.952	5.045	1.00106.38		C
ATOM	1073	CG	MET	136	16.828	20.455	5.048	1.00106.38		C
ATOM	1074	SD	MET	136	17.483	19.821	3.475	1.00106.38		S
ATOM	1075	CE	MET	136	15.885	19.868	2.613	1.00106.38		C
ATOM	1076	C	MET	136	15.779	23.933	6.255	1.00106.38		C
ATOM	1077	O	MET	136	15.894	24.500	5.171	1.00106.38		O
ATOM	1078	N	SER	137	15.567	24.604	7.398	1.00	95.68	N
ATOM	1079	CA	SER	137	15.617	26.032	7.388	1.00	95.68	C
ATOM	1080	CB	SER	137	14.660	26.695	8.393	1.00	95.68	C
ATOM	1081	OG	SER	137	14.780	28.109	8.319	1.00	95.68	O
ATOM	1082	C	SER	137	17.009	26.346	7.812	1.00	95.68	C
ATOM	1083	O	SER	137	17.721	25.463	8.287	1.00	95.68	O
ATOM	1084	N	PRO	138	17.447	27.556	7.643	1.00246.68		N
ATOM	1085	CA	PRO	138	18.744	27.911	8.139	1.00246.68		C
ATOM	1086	CD	PRO	138	17.045	28.380	6.518	1.00246.68		C
ATOM	1087	CB	PRO	138	19.123	29.218	7.438	1.00246.68		C
ATOM	1088	CG	PRO	138	17.830	29.681	6.737	1.00246.68		C
ATOM	1089	C	PRO	138	18.497	28.024	9.598	1.00246.68		C
ATOM	1090	O	PRO	138	17.336	28.020	9.979	1.00246.68		O
ATOM	1091	N	GLY	139	19.517	28.024	10.460	1.00200.83		N
ATOM	1092	CA	GLY	139	19.193	28.185	11.845	1.00200.83		C
ATOM	1093	C	GLY	139	18.864	26.822	12.354	1.00200.83		C
ATOM	1094	O	GLY	139	19.337	26.414	13.409	1.00200.83		O
ATOM	1095	N	LEU	140	18.027	26.084	11.599	1.00	79.96	N
ATOM	1096	CA	LEU	140	17.706	24.735	11.936	1.00	79.96	C
ATOM	1097	CB	LEU	140	16.597	24.155	11.043	1.00	79.96	C
ATOM	1098	CG	LEU	140	15.262	24.903	11.235	1.00	79.96	C
ATOM	1099	CD1	LEU	140	14.146	24.328	10.351	1.00	79.96	C
ATOM	1100	CD2	LEU	140	14.869	24.957	12.719	1.00	79.96	C
ATOM	1101	C	LEU	140	18.969	23.990	11.727	1.00	79.96	C
ATOM	1102	O	LEU	140	19.373	23.159	12.539	1.00	79.96	O
ATOM	1103	N	CYS	141	19.660	24.321	10.624	1.00	87.08	N
ATOM	1104	CA	CYS	141	20.900	23.662	10.394	1.00	87.08	C
ATOM	1105	CB	CYS	141	21.589	24.011	9.079	1.00	87.08	C

ATOM	1106	SG	CYS	141	22.896	22.789	8.810	1.00	87.08	S
ATOM	1107	C	CYS	141	21.781	24.090	11.513	1.00	87.08	C
ATOM	1108	O	CYS	141	22.669	23.356	11.942	1.00	87.08	O
ATOM	1109	N	ILE	142	21.550	25.320	12.004	1.00	46.56	N
ATOM	1110	CA	ILE	142	22.305	25.817	13.113	1.00	46.56	C
ATOM	1111	CB	ILE	142	21.955	27.231	13.477	1.00	46.56	C
ATOM	1112	CG2	ILE	142	22.694	27.591	14.777	1.00	46.56	C
ATOM	1113	CG1	ILE	142	22.284	28.168	12.301	1.00	46.56	C
ATOM	1114	CD1	ILE	142	21.720	29.579	12.458	1.00	46.56	C
ATOM	1115	C	ILE	142	22.017	24.919	14.274	1.00	46.56	C
ATOM	1116	O	ILE	142	22.900	24.641	15.083	1.00	46.56	O
ATOM	1117	N	PHE	143	20.757	24.455	14.403	1.00	90.31	N
ATOM	1118	CA	PHE	143	20.418	23.577	15.487	1.00	90.31	C
ATOM	1119	CB	PHE	143	18.925	23.202	15.555	1.00	90.31	C
ATOM	1120	CG	PHE	143	18.169	24.371	16.091	1.00	90.31	C
ATOM	1121	CD1	PHE	143	18.000	24.518	17.449	1.00	90.31	C
ATOM	1122	CD2	PHE	143	17.633	25.319	15.252	1.00	90.31	C
ATOM	1123	CE1	PHE	143	17.309	25.590	17.961	1.00	90.31	C
ATOM	1124	CE2	PHE	143	16.940	26.394	15.757	1.00	90.31	C
ATOM	1125	CZ	PHE	143	16.776	26.531	17.114	1.00	90.31	C
ATOM	1126	C	PHE	143	21.192	22.304	15.359	1.00	90.31	C
ATOM	1127	O	PHE	143	21.765	21.821	16.333	1.00	90.31	O
ATOM	1128	N	LEU	144	21.244	21.719	14.150	1.00	78.25	N
ATOM	1129	CA	LEU	144	21.962	20.486	14.012	1.00	78.25	C
ATOM	1130	CB	LEU	144	21.835	19.871	12.610	1.00	78.25	C
ATOM	1131	CG	LEU	144	20.420	19.324	12.329	1.00	78.25	C
ATOM	1132	CD1	LEU	144	20.096	18.134	13.246	1.00	78.25	C
ATOM	1133	CD2	LEU	144	19.353	20.424	12.394	1.00	78.25	C
ATOM	1134	C	LEU	144	23.400	20.749	14.324	1.00	78.25	C
ATOM	1135	O	LEU	144	24.057	19.947	14.986	1.00	78.25	O
ATOM	1136	N	VAL	145	23.925	21.901	13.873	1.00	34.20	N
ATOM	1137	CA	VAL	145	25.300	22.211	14.129	1.00	34.20	C
ATOM	1138	CB	VAL	145	25.724	23.525	13.544	1.00	34.20	C
ATOM	1139	CG1	VAL	145	27.159	23.823	14.009	1.00	34.20	C
ATOM	1140	CG2	VAL	145	25.570	23.455	12.016	1.00	34.20	C
ATOM	1141	C	VAL	145	25.505	22.296	15.608	1.00	34.20	C
ATOM	1142	O	VAL	145	26.500	21.797	16.129	1.00	34.20	O
ATOM	1143	N	SER	146	24.565	22.931	16.331	1.00	30.76	N
ATOM	1144	CA	SER	146	24.733	23.074	17.749	1.00	30.76	C
ATOM	1145	CB	SER	146	23.650	23.943	18.412	1.00	30.76	C
ATOM	1146	OG	SER	146	22.386	23.299	18.352	1.00	30.76	O
ATOM	1147	C	SER	146	24.684	21.716	18.377	1.00	30.76	C
ATOM	1148	O	SER	146	25.370	21.460	19.365	1.00	30.76	O
ATOM	1149	N	ALA	147	23.872	20.806	17.807	1.00	24.78	N
ATOM	1150	CA	ALA	147	23.716	19.485	18.346	1.00	24.78	C
ATOM	1151	CB	ALA	147	22.699	18.639	17.561	1.00	24.78	C
ATOM	1152	C	ALA	147	25.030	18.776	18.285	1.00	24.78	C
ATOM	1153	O	ALA	147	25.411	18.062	19.210	1.00	24.78	O
ATOM	1154	N	SER	148	25.765	18.966	17.181	1.00	89.53	N
ATOM	1155	CA	SER	148	27.025	18.314	16.990	1.00	89.53	C
ATOM	1156	CB	SER	148	27.690	18.789	15.690	1.00	89.53	C
ATOM	1157	OG	SER	148	29.018	18.305	15.610	1.00	89.53	O
ATOM	1158	C	SER	148	27.930	18.684	18.123	1.00	89.53	C
ATOM	1159	O	SER	148	28.557	17.824	18.734	1.00	89.53	O
ATOM	1160	N	TRP	149	28.001	19.979	18.459	1.00	53.33	N
ATOM	1161	CA	TRP	149	28.901	20.425	19.482	1.00	53.33	C
ATOM	1162	CB	TRP	149	28.898	21.953	19.659	1.00	53.33	C
ATOM	1163	CG	TRP	149	29.516	22.710	18.508	1.00	53.33	C
ATOM	1164	CD2	TRP	149	30.911	23.039	18.428	1.00	53.33	C
ATOM	1165	CD1	TRP	149	28.933	23.215	17.383	1.00	53.33	C
ATOM	1166	NE1	TRP	149	29.879	23.841	16.606	1.00	53.33	N
ATOM	1167	CE2	TRP	149	31.101	23.739	17.237	1.00	53.33	C
ATOM	1168	CE3	TRP	149	31.948	22.778	19.276	1.00	53.33	C
ATOM	1169	CZ2	TRP	149	32.338	24.193	16.876	1.00	53.33	C
ATOM	1170	CZ3	TRP	149	33.194	23.235	18.910	1.00	53.33	C
ATOM	1171	CH2	TRP	149	33.385	23.929	17.733	1.00	53.33	C
ATOM	1172	C	TRP	149	28.528	19.831	20.800	1.00	53.33	C
ATOM	1173	O	TRP	149	29.398	19.424	21.567	1.00	53.33	O
ATOM	1174	N	ILE	150	27.224	19.781	21.122	1.00	90.16	N
ATOM	1175	CA	ILE	150	26.872	19.282	22.417	1.00	90.16	C
ATOM	1176	CB	ILE	150	25.403	19.408	22.725	1.00	90.16	C
ATOM	1177	CG2	ILE	150	25.047	20.904	22.702	1.00	90.16	C
ATOM	1178	CG1	ILE	150	24.551	18.562	21.765	1.00	90.16	C
ATOM	1179	CD1	ILE	150	23.094	18.419	22.205	1.00	90.16	C
ATOM	1180	C	ILE	150	27.258	17.839	22.524	1.00	90.16	C
ATOM	1181	O	ILE	150	27.922	17.443	23.478	1.00	90.16	O
ATOM	1182	N	MET	151	26.902	17.018	21.519	1.00	58.65	N

ATOM	1183	CA	MET	151	27.139	15.607	21.608	1.00	58.65	C
ATOM	1184	CB	MET	151	26.601	14.845	20.387	1.00	58.65	C
ATOM	1185	CG	MET	151	25.079	14.906	20.262	1.00	58.65	C
ATOM	1186	SD	MET	151	24.186	14.112	21.632	1.00	58.65	S
ATOM	1187	CE	MET	151	22.532	14.430	20.953	1.00	58.65	C
ATOM	1188	C	MET	151	28.602	15.335	21.695	1.00	58.65	C
ATOM	1189	O	MET	151	29.048	14.508	22.488	1.00	58.65	O
ATOM	1190	N	ASN	152	29.392	16.030	20.870	1.00	68.89	N
ATOM	1191	CA	ASN	152	30.802	15.811	20.820	1.00	68.89	C
ATOM	1192	CB	ASN	152	31.371	16.405	19.539	1.00	68.89	C
ATOM	1193	CG	ASN	152	30.641	15.498	18.559	1.00	68.89	C
ATOM	1194	OD1	ASN	152	30.564	14.292	18.785	1.00	68.89	O
ATOM	1195	ND2	ASN	152	30.040	16.051	17.477	1.00	68.89	N
ATOM	1196	C	ASN	152	31.450	16.287	22.081	1.00	68.89	C
ATOM	1197	O	ASN	152	32.425	15.696	22.544	1.00	68.89	O
ATOM	1198	N	ALA	153	30.921	17.373	22.670	1.00	29.50	N
ATOM	1199	CA	ALA	153	31.431	17.893	23.905	1.00	29.50	C
ATOM	1200	CB	ALA	153	30.720	19.184	24.345	1.00	29.50	C
ATOM	1201	C	ALA	153	31.213	16.869	24.976	1.00	29.50	C
ATOM	1202	O	ALA	153	32.074	16.661	25.830	1.00	29.50	O
ATOM	1203	N	LEU	154	30.054	16.182	24.954	1.00	101.29	N
ATOM	1204	CA	LEU	154	29.793	15.228	25.992	1.00	101.29	C
ATOM	1205	CB	LEU	154	28.435	14.504	25.888	1.00	101.29	C
ATOM	1206	CG	LEU	154	27.244	15.249	26.528	1.00	101.29	C
ATOM	1207	CD1	LEU	154	27.394	15.301	28.057	1.00	101.29	C
ATOM	1208	CD2	LEU	154	27.014	16.639	25.925	1.00	101.29	C
ATOM	1209	C	LEU	154	30.863	14.187	25.984	1.00	101.29	C
ATOM	1210	O	LEU	154	31.289	13.730	27.042	1.00	101.29	O
ATOM	1211	N	HIS	155	31.288	13.731	24.796	1.00	59.89	N
ATOM	1212	CA	HIS	155	32.334	12.751	24.743	1.00	59.89	C
ATOM	1213	ND1	HIS	155	33.873	10.022	23.744	1.00	59.89	N
ATOM	1214	CG	HIS	155	33.761	11.308	23.265	1.00	59.89	C
ATOM	1215	CB	HIS	155	32.521	12.148	23.344	1.00	59.89	C
ATOM	1216	NE2	HIS	155	35.863	10.566	22.912	1.00	59.89	N
ATOM	1217	CD2	HIS	155	34.984	11.623	22.759	1.00	59.89	C
ATOM	1218	CE1	HIS	155	35.150	9.627	23.508	1.00	59.89	C
ATOM	1219	C	HIS	155	33.673	13.309	25.128	1.00	59.89	C
ATOM	1220	O	HIS	155	34.380	12.735	25.953	1.00	59.89	O
ATOM	1221	N	SER	156	34.055	14.443	24.513	1.00	99.44	N
ATOM	1222	CA	SER	156	35.374	15.004	24.637	1.00	99.44	C
ATOM	1223	CB	SER	156	35.642	16.071	23.563	1.00	99.44	C
ATOM	1224	OG	SER	156	35.587	15.489	22.270	1.00	99.44	O
ATOM	1225	C	SER	156	35.658	15.627	25.973	1.00	99.44	C
ATOM	1226	O	SER	156	36.749	15.453	26.509	1.00	99.44	O
ATOM	1227	N	LEU	157	34.693	16.372	26.539	1.00	108.73	N
ATOM	1228	CA	LEU	157	34.873	17.166	27.729	1.00	108.73	C
ATOM	1229	CB	LEU	157	33.643	18.078	27.968	1.00	108.73	C
ATOM	1230	CG	LEU	157	33.750	19.167	29.066	1.00	108.73	C
ATOM	1231	CD1	LEU	157	32.472	20.020	29.086	1.00	108.73	C
ATOM	1232	CD2	LEU	157	34.053	18.608	30.466	1.00	108.73	C
ATOM	1233	C	LEU	157	35.119	16.329	28.955	1.00	108.73	C
ATOM	1234	O	LEU	157	35.915	16.701	29.813	1.00	108.73	O
ATOM	1235	N	LEU	158	34.482	15.155	29.060	1.00	146.47	N
ATOM	1236	CA	LEU	158	34.470	14.393	30.278	1.00	146.47	C
ATOM	1237	CB	LEU	158	33.729	13.061	30.089	1.00	146.47	C
ATOM	1238	CG	LEU	158	33.688	12.194	31.352	1.00	146.47	C
ATOM	1239	CD1	LEU	158	32.944	12.920	32.486	1.00	146.47	C
ATOM	1240	CD2	LEU	158	33.108	10.803	31.053	1.00	146.47	C
ATOM	1241	C	LEU	158	35.861	14.073	30.763	1.00	146.47	C
ATOM	1242	O	LEU	158	36.129	14.169	31.959	1.00	146.47	O
ATOM	1243	N	HIS	159	36.792	13.715	29.862	1.00	119.02	N
ATOM	1244	CA	HIS	159	38.102	13.286	30.268	1.00	119.02	C
ATOM	1245	ND1	HIS	159	39.074	14.980	27.691	1.00	119.02	N
ATOM	1246	CG	HIS	159	39.701	13.964	28.374	1.00	119.02	C
ATOM	1247	CB	HIS	159	38.996	12.851	29.089	1.00	119.02	C
ATOM	1248	NE2	HIS	159	41.258	15.310	27.450	1.00	119.02	N
ATOM	1249	CD2	HIS	159	41.035	14.182	28.218	1.00	119.02	C
ATOM	1250	CE1	HIS	159	40.050	15.757	27.158	1.00	119.02	C
ATOM	1251	C	HIS	159	38.819	14.387	30.994	1.00	119.02	C
ATOM	1252	O	HIS	159	39.647	14.111	31.861	1.00	119.02	O
ATOM	1253	N	THR	160	38.561	15.661	30.635	1.00	114.03	N
ATOM	1254	CA	THR	160	39.222	16.751	31.300	1.00	114.03	C
ATOM	1255	CB	THR	160	38.914	18.105	30.719	1.00	114.03	C
ATOM	1256	OG1	THR	160	39.843	19.062	31.206	1.00	114.03	O
ATOM	1257	CG2	THR	160	37.489	18.524	31.117	1.00	114.03	C
ATOM	1258	C	THR	160	38.779	16.743	32.727	1.00	114.03	C
ATOM	1259	O	THR	160	39.545	17.067	33.633	1.00	114.03	O

ATOM	1260	N	LEU	161	37.507	16.374	32.946	1.00151.55	N
ATOM	1261	CA	LEU	161	36.944	16.278	34.257	1.00151.55	C
ATOM	1262	CB	LEU	161	35.410	16.159	34.260	1.00151.55	C
ATOM	1263	CG	LEU	161	34.687	17.394	33.696	1.00151.55	C
ATOM	1264	CD1	LEU	161	33.161	17.209	33.727	1.00151.55	C
ATOM	1265	CD2	LEU	161	35.146	18.681	34.396	1.00151.55	C
ATOM	1266	C	LEU	161	37.493	15.023	34.849	1.00151.55	C
ATOM	1267	O	LEU	161	38.563	14.559	34.465	1.00151.55	O
ATOM	1268	N	LEU	162	36.801	14.501	35.871	1.00118.43	N
ATOM	1269	CA	LEU	162	37.173	13.321	36.594	1.00118.43	C
ATOM	1270	CB	LEU	162	36.337	13.126	37.871	1.00118.43	C
ATOM	1271	CG	LEU	162	36.546	14.233	38.922	1.00118.43	C
ATOM	1272	CD1	LEU	162	37.982	14.220	39.467	1.00118.43	C
ATOM	1273	CD2	LEU	162	36.122	15.609	38.383	1.00118.43	C
ATOM	1274	C	LEU	162	37.026	12.068	35.785	1.00118.43	C
ATOM	1275	O	LEU	162	37.840	11.157	35.922	1.00118.43	O
ATOM	1276	N	MET	163	35.985	11.968	34.932	1.00113.88	N
ATOM	1277	CA	MET	163	35.725	10.713	34.281	1.00113.88	C
ATOM	1278	CB	MET	163	34.288	10.588	33.747	1.00113.88	C
ATOM	1279	CG	MET	163	33.261	10.415	34.871	1.00113.88	C
ATOM	1280	SD	MET	163	31.518	10.528	34.363	1.00113.88	S
ATOM	1281	CE	MET	163	31.312	12.266	34.849	1.00113.88	C
ATOM	1282	C	MET	163	36.703	10.454	33.185	1.00113.88	C
ATOM	1283	O	MET	163	36.932	11.296	32.319	1.00113.88	O
ATOM	1284	N	ASN	164	37.317	9.248	33.223	1.00159.69	N
ATOM	1285	CA	ASN	164	38.328	8.818	32.295	1.00159.69	C
ATOM	1286	CB	ASN	164	37.812	8.428	30.892	1.00159.69	C
ATOM	1287	CG	ASN	164	37.297	9.644	30.138	1.00159.69	C
ATOM	1288	OD1	ASN	164	38.053	10.304	29.430	1.00159.69	O
ATOM	1289	ND2	ASN	164	35.974	9.934	30.257	1.00159.69	N
ATOM	1290	C	ASN	164	39.382	9.880	32.196	1.00159.69	C
ATOM	1291	O	ASN	164	39.384	10.849	32.954	1.00159.69	O
ATOM	1292	N	SER	165	40.380	9.688	31.313	1.00103.56	N
ATOM	1293	CA	SER	165	41.354	10.734	31.206	1.00103.56	C
ATOM	1294	CB	SER	165	42.380	10.749	32.353	1.00103.56	C
ATOM	1295	OG	SER	165	43.173	9.572	32.319	1.00103.56	O
ATOM	1296	C	SER	165	42.107	10.540	29.934	1.00103.56	C
ATOM	1297	O	SER	165	42.043	9.477	29.320	1.00103.56	O
ATOM	1298	N	LEU	166	42.815	11.598	29.490	1.00148.60	N
ATOM	1299	CA	LEU	166	43.612	11.512	28.306	1.00148.60	C
ATOM	1300	CB	LEU	166	43.798	12.871	27.595	1.00148.60	C
ATOM	1301	CG	LEU	166	44.437	13.998	28.440	1.00148.60	C
ATOM	1302	CD1	LEU	166	43.624	14.294	29.709	1.00148.60	C
ATOM	1303	CD2	LEU	166	45.927	13.755	28.713	1.00148.60	C
ATOM	1304	C	LEU	166	44.941	10.967	28.707	1.00148.60	C
ATOM	1305	O	LEU	166	45.456	11.280	29.780	1.00148.60	O
ATOM	1306	N	SER	167	45.521	10.095	27.862	1.00 44.64	N
ATOM	1307	CA	SER	167	46.807	9.560	28.189	1.00 44.64	C
ATOM	1308	CB	SER	167	46.754	8.221	28.940	1.00 44.64	C
ATOM	1309	OG	SER	167	46.169	8.409	30.221	1.00 44.64	O
ATOM	1310	C	SER	167	47.540	9.334	26.912	1.00 44.64	C
ATOM	1311	O	SER	167	46.942	9.126	25.857	1.00 44.64	O
ATOM	1312	N	PHE	168	48.881	9.365	26.993	1.00106.15	N
ATOM	1313	CA	PHE	168	49.706	9.176	25.843	1.00106.15	C
ATOM	1314	CB	PHE	168	51.198	9.372	26.154	1.00106.15	C
ATOM	1315	CG	PHE	168	51.507	8.560	27.363	1.00106.15	C
ATOM	1316	CD1	PHE	168	51.809	7.221	27.277	1.00106.15	C
ATOM	1317	CD2	PHE	168	51.485	9.159	28.602	1.00106.15	C
ATOM	1318	CE1	PHE	168	52.087	6.497	28.415	1.00106.15	C
ATOM	1319	CE2	PHE	168	51.761	8.442	29.741	1.00106.15	C
ATOM	1320	CZ	PHE	168	52.064	7.106	29.647	1.00106.15	C
ATOM	1321	C	PHE	168	49.470	7.805	25.307	1.00106.15	C
ATOM	1322	O	PHE	168	49.231	6.856	26.052	1.00106.15	O
ATOM	1323	N	CYS	169	49.513	7.689	23.968	1.00123.71	N
ATOM	1324	CA	CYS	169	49.226	6.453	23.318	1.00123.71	C
ATOM	1325	CB	CYS	169	48.485	6.626	21.985	1.00123.71	C
ATOM	1326	SG	CYS	169	47.671	5.091	21.470	1.00123.71	S
ATOM	1327	C	CYS	169	50.525	5.766	23.082	1.00123.71	C
ATOM	1328	O	CYS	169	51.590	6.316	23.358	1.00123.71	O
ATOM	1329	N	ALA	170	50.456	4.538	22.542	1.00265.18	N
ATOM	1330	CA	ALA	170	51.595	3.677	22.433	1.00265.18	C
ATOM	1331	CB	ALA	170	51.233	2.262	21.956	1.00265.18	C
ATOM	1332	C	ALA	170	52.662	4.201	21.539	1.00265.18	C
ATOM	1333	O	ALA	170	52.418	4.922	20.575	1.00265.18	O
ATOM	1334	N	ASN	171	53.915	3.865	21.897	1.00235.44	N
ATOM	1335	CA	ASN	171	55.023	4.197	21.064	1.00235.44	C
ATOM	1336	CB	ASN	171	55.836	5.400	21.557	1.00235.44	C

ATOM	1337	CG	ASN	171	56.725	5.820	20.398	1.00235.44	C
ATOM	1338	OD1	ASN	171	56.436	5.507	19.245	1.00235.44	O
ATOM	1339	ND2	ASN	171	57.838	6.539	20.701	1.00235.44	N
ATOM	1340	C	ASN	171	55.940	3.017	21.082	1.00235.44	C
ATOM	1341	O	ASN	171	56.264	2.481	22.141	1.00235.44	O
ATOM	1342	N	HIS	172	56.362	2.571	19.886	1.00222.28	N
ATOM	1343	CA	HIS	172	57.297	1.494	19.756	1.00222.28	C
ATOM	1344	ND1	HIS	172	58.296	-1.669	18.739	1.00222.28	N
ATOM	1345	CG	HIS	172	57.589	-1.053	19.749	1.00222.28	C
ATOM	1346	CB	HIS	172	56.648	0.106	19.560	1.00222.28	C
ATOM	1347	NE2	HIS	172	58.819	-2.737	20.617	1.00222.28	N
ATOM	1348	CD2	HIS	172	57.923	-1.719	20.890	1.00222.28	C
ATOM	1349	CE1	HIS	172	59.014	-2.667	19.313	1.00222.28	C
ATOM	1350	C	HIS	172	58.082	1.862	18.542	1.00222.28	C
ATOM	1351	O	HIS	172	58.171	3.043	18.223	1.00222.28	O
ATOM	1352	N	GLU	173	58.614	0.882	17.794	1.00 74.22	N
ATOM	1353	CA	GLU	173	59.459	1.198	16.679	1.00 74.22	C
ATOM	1354	CB	GLU	173	59.914	-0.048	15.900	1.00 74.22	C
ATOM	1355	CG	GLU	173	60.849	-0.965	16.690	1.00 74.22	C
ATOM	1356	CD	GLU	173	61.211	-2.139	15.792	1.00 74.22	C
ATOM	1357	OE1	GLU	173	60.746	-2.148	14.620	1.00 74.22	O
ATOM	1358	OE2	GLU	173	61.957	-3.039	16.259	1.00 74.22	O
ATOM	1359	C	GLU	173	58.727	2.079	15.711	1.00 74.22	C
ATOM	1360	O	GLU	173	59.286	3.060	15.225	1.00 74.22	O
ATOM	1361	N	ILE	174	57.450	1.778	15.407	1.00 95.45	N
ATOM	1362	CA	ILE	174	56.767	2.607	14.458	1.00 95.45	C
ATOM	1363	CB	ILE	174	55.460	2.039	13.984	1.00 95.45	C
ATOM	1364	CG2	ILE	174	54.784	3.101	13.100	1.00 95.45	C
ATOM	1365	CG1	ILE	174	55.691	0.701	13.262	1.00 95.45	C
ATOM	1366	CD1	ILE	174	56.557	0.828	12.009	1.00 95.45	C
ATOM	1367	C	ILE	174	56.487	3.922	15.114	1.00 95.45	C
ATOM	1368	O	ILE	174	55.857	4.020	16.164	1.00 95.45	O
ATOM	1369	N	PRO	175	56.963	4.942	14.471	1.00104.51	N
ATOM	1370	CA	PRO	175	56.884	6.287	14.964	1.00104.51	C
ATOM	1371	CD	PRO	175	57.278	4.885	13.054	1.00104.51	C
ATOM	1372	CB	PRO	175	57.562	7.134	13.899	1.00104.51	C
ATOM	1373	CG	PRO	175	57.302	6.352	12.598	1.00104.51	C
ATOM	1374	C	PRO	175	55.494	6.777	15.202	1.00104.51	C
ATOM	1375	O	PRO	175	54.633	6.556	14.352	1.00104.51	O
ATOM	1376	N	HIS	176	55.273	7.437	16.362	1.00333.26	N
ATOM	1377	CA	HIS	176	54.051	8.136	16.644	1.00333.26	C
ATOM	1378	ND1	HIS	176	50.591	8.312	17.186	1.00333.26	N
ATOM	1379	CG	HIS	176	51.624	8.486	16.291	1.00333.26	C
ATOM	1380	CB	HIS	176	52.756	7.523	16.094	1.00333.26	C
ATOM	1381	NE2	HIS	176	50.272	10.293	16.221	1.00333.26	N
ATOM	1382	CD2	HIS	176	51.413	9.699	15.712	1.00333.26	C
ATOM	1383	CE1	HIS	176	49.813	9.422	17.103	1.00333.26	C
ATOM	1384	C	HIS	176	53.873	8.290	18.120	1.00333.26	C
ATOM	1385	O	HIS	176	54.341	7.472	18.911	1.00333.26	O
ATOM	1386	N	PHE	177	53.191	9.384	18.518	1.00329.38	N
ATOM	1387	CA	PHE	177	52.876	9.628	19.893	1.00329.38	C
ATOM	1388	CB	PHE	177	53.793	10.683	20.533	1.00329.38	C
ATOM	1389	CG	PHE	177	53.726	10.527	22.011	1.00329.38	C
ATOM	1390	CD1	PHE	177	54.584	9.651	22.635	1.00329.38	C
ATOM	1391	CD2	PHE	177	52.824	11.234	22.769	1.00329.38	C
ATOM	1392	CE1	PHE	177	54.551	9.484	23.998	1.00329.38	C
ATOM	1393	CE2	PHE	177	52.787	11.071	24.134	1.00329.38	C
ATOM	1394	CZ	PHE	177	53.652	10.198	24.749	1.00329.38	C
ATOM	1395	C	PHE	177	51.500	10.213	19.844	1.00329.38	C
ATOM	1396	O	PHE	177	51.213	11.024	18.965	1.00329.38	O
ATOM	1397	N	PHE	178	50.600	9.829	20.770	1.00276.55	N
ATOM	1398	CA	PHE	178	49.273	10.363	20.650	1.00276.55	C
ATOM	1399	CB	PHE	178	48.342	9.438	19.841	1.00276.55	C
ATOM	1400	CG	PHE	178	47.121	10.194	19.437	1.00276.55	C
ATOM	1401	CD1	PHE	178	47.178	11.065	18.374	1.00276.55	C
ATOM	1402	CD2	PHE	178	45.922	10.023	20.091	1.00276.55	C
ATOM	1403	CE1	PHE	178	46.065	11.769	17.978	1.00276.55	C
ATOM	1404	CE2	PHE	178	44.805	10.725	19.698	1.00276.55	C
ATOM	1405	CZ	PHE	178	44.874	11.601	18.642	1.00276.55	C
ATOM	1406	C	PHE	178	48.702	10.500	22.026	1.00276.55	C
ATOM	1407	O	PHE	178	49.327	10.108	23.008	1.00276.55	O
ATOM	1408	N	CYS	179	47.517	11.136	22.140	1.00 88.34	N
ATOM	1409	CA	CYS	179	46.845	11.197	23.408	1.00 88.34	C
ATOM	1410	CB	CYS	179	46.801	12.596	24.034	1.00 88.34	C
ATOM	1411	SG	CYS	179	48.394	13.052	24.765	1.00 88.34	S
ATOM	1412	C	CYS	179	45.431	10.780	23.172	1.00 88.34	C
ATOM	1413	O	CYS	179	44.727	11.382	22.363	1.00 88.34	O

ATOM	1414	N	ASP	180	44.978	9.728	23.884	1.00	99.42	N
ATOM	1415	CA	ASP	180	43.650	9.226	23.680	1.00	99.42	C
ATOM	1416	CB	ASP	180	43.646	7.884	22.916	1.00	99.42	C
ATOM	1417	CG	ASP	180	42.256	7.606	22.354	1.00	99.42	C
ATOM	1418	OD1	ASP	180	41.409	8.539	22.378	1.00	99.42	O
ATOM	1419	OD2	ASP	180	42.022	6.453	21.901	1.00	99.42	O
ATOM	1420	C	ASP	180	43.026	8.985	25.027	1.00	99.42	C
ATOM	1421	O	ASP	180	43.596	9.317	26.065	1.00	99.42	O
ATOM	1422	N	ILE	181	41.802	8.420	25.013	1.00138.40		N
ATOM	1423	CA	ILE	181	41.042	7.998	26.157	1.00138.40		C
ATOM	1424	CB	ILE	181	39.680	7.473	25.774	1.00138.40		C
ATOM	1425	CG2	ILE	181	38.942	6.966	27.025	1.00138.40		C
ATOM	1426	CG1	ILE	181	38.895	8.579	25.051	1.00138.40		C
ATOM	1427	CD1	ILE	181	38.642	9.805	25.927	1.00138.40		C
ATOM	1428	C	ILE	181	41.854	6.901	26.772	1.00138.40		C
ATOM	1429	O	ILE	181	42.856	6.500	26.181	1.00138.40		O
ATOM	1430	N	ASN	182	41.524	6.431	28.001	1.00146.99		N
ATOM	1431	CA	ASN	182	42.312	5.375	28.588	1.00146.99		C
ATOM	1432	CB	ASN	182	42.616	5.584	30.077	1.00146.99		C
ATOM	1433	CG	ASN	182	43.798	6.523	30.161	1.00146.99		C
ATOM	1434	OD1	ASN	182	43.715	7.601	30.742	1.00146.99		O
ATOM	1435	ND2	ASN	182	44.940	6.092	29.563	1.00146.99		N
ATOM	1436	C	ASN	182	41.677	4.010	28.508	1.00146.99		C
ATOM	1437	O	ASN	182	40.967	3.590	29.423	1.00146.99		O
ATOM	1438	N	PRO	183	41.881	3.329	27.407	1.00188.67		N
ATOM	1439	CA	PRO	183	41.575	1.925	27.311	1.00188.67		C
ATOM	1440	CD	PRO	183	41.628	3.984	26.136	1.00188.67		C
ATOM	1441	CB	PRO	183	41.372	1.654	25.828	1.00188.67		C
ATOM	1442	CG	PRO	183	40.926	2.981	25.235	1.00188.67		C
ATOM	1443	C	PRO	183	42.722	1.112	27.840	1.00188.67		C
ATOM	1444	O	PRO	183	42.602	-0.110	27.921	1.00188.67		O
ATOM	1445	N	LEU	184	43.834	1.782	28.196	1.00250.44		N
ATOM	1446	CA	LEU	184	45.111	1.173	28.461	1.00250.44		C
ATOM	1447	CB	LEU	184	46.225	2.203	28.719	1.00250.44		C
ATOM	1448	CG	LEU	184	46.490	3.132	27.519	1.00250.44		C
ATOM	1449	CD1	LEU	184	45.268	4.012	27.211	1.00250.44		C
ATOM	1450	CD2	LEU	184	47.774	3.951	27.720	1.00250.44		C
ATOM	1451	C	LEU	184	45.103	0.225	29.613	1.00250.44		C
ATOM	1452	O	LEU	184	44.223	0.247	30.467	1.00250.44		O
ATOM	1453	N	LEU	185	46.071	-0.717	29.574	1.00146.85		N
ATOM	1454	CA	LEU	185	46.307	-1.699	30.595	1.00146.85		C
ATOM	1455	CB	LEU	185	47.370	-2.728	30.163	1.00146.85		C
ATOM	1456	CG	LEU	185	47.772	-3.812	31.194	1.00146.85		C
ATOM	1457	CD1	LEU	185	48.694	-3.261	32.294	1.00146.85		C
ATOM	1458	CD2	LEU	185	46.546	-4.538	31.771	1.00146.85		C
ATOM	1459	C	LEU	185	46.824	-1.044	31.832	1.00146.85		C
ATOM	1460	O	LEU	185	46.324	-1.295	32.928	1.00146.85		O
ATOM	1461	N	SER	186	47.840	-0.169	31.682	1.00	62.99	N
ATOM	1462	CA	SER	186	48.474	0.381	32.843	1.00	62.99	C
ATOM	1463	CB	SER	186	49.589	1.386	32.522	1.00	62.99	C
ATOM	1464	OG	SER	186	50.152	1.877	33.729	1.00	62.99	O
ATOM	1465	C	SER	186	47.454	1.098	33.646	1.00	62.99	C
ATOM	1466	O	SER	186	47.197	0.739	34.793	1.00	62.99	O
ATOM	1467	N	LEU	187	46.828	2.129	33.056	1.00	42.38	N
ATOM	1468	CA	LEU	187	45.815	2.780	33.821	1.00	42.38	C
ATOM	1469	CB	LEU	187	45.215	4.014	33.131	1.00	42.38	C
ATOM	1470	CG	LEU	187	46.237	5.159	33.006	1.00	42.38	C
ATOM	1471	CD1	LEU	187	45.583	6.453	32.503	1.00	42.38	C
ATOM	1472	CD2	LEU	187	47.008	5.360	34.320	1.00	42.38	C
ATOM	1473	C	LEU	187	44.767	1.748	34.020	1.00	42.38	C
ATOM	1474	O	LEU	187	44.241	1.587	35.119	1.00	42.38	O
ATOM	1475	N	SER	188	44.456	0.987	32.957	1.00147.55		N
ATOM	1476	CA	SER	188	43.501	-0.049	33.162	1.00147.55		C
ATOM	1477	CB	SER	188	43.897	-1.009	34.301	1.00147.55		C
ATOM	1478	OG	SER	188	42.969	-2.076	34.410	1.00147.55		O
ATOM	1479	C	SER	188	42.231	0.648	33.502	1.00147.55		C
ATOM	1480	O	SER	188	42.081	1.837	33.229	1.00147.55		O
ATOM	1481	N	CYS	189	41.260	-0.078	34.077	1.00172.67		N
ATOM	1482	CA	CYS	189	40.047	0.590	34.416	1.00172.67		C
ATOM	1483	CB	CYS	189	38.811	-0.325	34.321	1.00172.67		C
ATOM	1484	SG	CYS	189	38.954	-1.835	35.327	1.00172.67		S
ATOM	1485	C	CYS	189	40.161	1.088	35.819	1.00172.67		C
ATOM	1486	O	CYS	189	39.443	0.628	36.704	1.00172.67		O
ATOM	1487	N	THR	190	41.036	2.090	36.049	1.00142.96		N
ATOM	1488	CA	THR	190	41.195	2.593	37.382	1.00142.96		C
ATOM	1489	CB	THR	190	42.134	3.761	37.505	1.00142.96		C
ATOM	1490	OG1	THR	190	41.686	4.837	36.695	1.00142.96		O

ATOM	1491	CG2	THR	190	43.553	3.335	37.107	1.00142.96	C
ATOM	1492	C	THR	190	39.866	3.080	37.843	1.00142.96	C
ATOM	1493	O	THR	190	39.305	4.020	37.279	1.00142.96	O
ATOM	1494	N	ASP	191	39.328	2.442	38.901	1.00127.45	N
ATOM	1495	CA	ASP	191	38.055	2.879	39.380	1.00127.45	C
ATOM	1496	CB	ASP	191	37.468	2.028	40.530	1.00127.45	C
ATOM	1497	CG	ASP	191	38.394	2.010	41.734	1.00127.45	C
ATOM	1498	OD1	ASP	191	39.561	1.558	41.580	1.00127.45	O
ATOM	1499	OD2	ASP	191	37.938	2.424	42.833	1.00127.45	O
ATOM	1500	C	ASP	191	38.138	4.324	39.769	1.00127.45	C
ATOM	1501	O	ASP	191	37.250	5.054	39.332	1.00127.45	O
ATOM	1502	N	PRO	192	39.073	4.840	40.551	1.00206.79	N
ATOM	1503	CA	PRO	192	39.136	6.263	40.709	1.00206.79	C
ATOM	1504	CD	PRO	192	40.323	4.204	40.946	1.00206.79	C
ATOM	1505	CB	PRO	192	40.336	6.533	41.610	1.00206.79	C
ATOM	1506	CG	PRO	192	41.279	5.363	41.277	1.00206.79	C
ATOM	1507	C	PRO	192	39.416	6.705	39.312	1.00206.79	C
ATOM	1508	O	PRO	192	40.366	6.177	38.738	1.00206.79	O
ATOM	1509	N	PHE	193	38.608	7.642	38.771	1.00254.43	N
ATOM	1510	CA	PHE	193	38.697	8.151	37.427	1.00254.43	C
ATOM	1511	CB	PHE	193	40.032	7.927	36.682	1.00254.43	C
ATOM	1512	CG	PHE	193	41.064	8.840	37.257	1.00254.43	C
ATOM	1513	CD1	PHE	193	41.785	8.491	38.376	1.00254.43	C
ATOM	1514	CD2	PHE	193	41.316	10.056	36.665	1.00254.43	C
ATOM	1515	CE1	PHE	193	42.737	9.335	38.898	1.00254.43	C
ATOM	1516	CE2	PHE	193	42.266	10.906	37.182	1.00254.43	C
ATOM	1517	CZ	PHE	193	42.979	10.547	38.301	1.00254.43	C
ATOM	1518	C	PHE	193	37.598	7.516	36.627	1.00254.43	C
ATOM	1519	O	PHE	193	37.084	8.124	35.689	1.00254.43	O
ATOM	1520	N	THR	194	37.210	6.277	37.011	1.00193.95	N
ATOM	1521	CA	THR	194	36.168	5.493	36.393	1.00193.95	C
ATOM	1522	CB	THR	194	34.768	5.945	36.733	1.00193.95	C
ATOM	1523	OG1	THR	194	33.822	5.024	36.211	1.00193.95	O
ATOM	1524	CG2	THR	194	34.503	7.356	36.182	1.00193.95	C
ATOM	1525	C	THR	194	36.350	5.413	34.907	1.00193.95	C
ATOM	1526	O	THR	194	35.485	5.823	34.134	1.00193.95	O
ATOM	1527	N	ASN	195	37.508	4.869	34.479	1.00 73.52	N
ATOM	1528	CA	ASN	195	37.858	4.740	33.091	1.00 73.52	C
ATOM	1529	CB	ASN	195	39.289	4.206	32.882	1.00 73.52	C
ATOM	1530	CG	ASN	195	40.296	5.242	33.360	1.00 73.52	C
ATOM	1531	OD1	ASN	195	39.943	6.378	33.669	1.00 73.52	O
ATOM	1532	ND2	ASN	195	41.595	4.838	33.412	1.00 73.52	N
ATOM	1533	C	ASN	195	36.964	3.765	32.386	1.00 73.52	C
ATOM	1534	O	ASN	195	36.468	4.043	31.297	1.00 73.52	O
ATOM	1535	N	GLU	196	36.709	2.598	33.004	1.00 88.96	N
ATOM	1536	CA	GLU	196	36.014	1.547	32.319	1.00 88.96	C
ATOM	1537	CB	GLU	196	35.877	0.281	33.181	1.00 88.96	C
ATOM	1538	CG	GLU	196	35.361	-0.929	32.405	1.00 88.96	C
ATOM	1539	CD	GLU	196	35.421	-2.136	33.331	1.00 88.96	C
ATOM	1540	OE1	GLU	196	35.086	-1.976	34.535	1.00 88.96	O
ATOM	1541	OE2	GLU	196	35.800	-3.234	32.845	1.00 88.96	O
ATOM	1542	C	GLU	196	34.644	1.985	31.915	1.00 88.96	C
ATOM	1543	O	GLU	196	34.212	1.716	30.796	1.00 88.96	O
ATOM	1544	N	LEU	197	33.923	2.687	32.805	1.00120.99	N
ATOM	1545	CA	LEU	197	32.567	3.058	32.517	1.00120.99	C
ATOM	1546	CB	LEU	197	31.890	3.743	33.723	1.00120.99	C
ATOM	1547	CG	LEU	197	30.395	4.084	33.543	1.00120.99	C
ATOM	1548	CD1	LEU	197	30.169	5.247	32.563	1.00120.99	C
ATOM	1549	CD2	LEU	197	29.587	2.829	33.176	1.00120.99	C
ATOM	1550	C	LEU	197	32.535	3.991	31.346	1.00120.99	C
ATOM	1551	O	LEU	197	31.698	3.845	30.457	1.00120.99	O
ATOM	1552	N	VAL	198	33.458	4.970	31.302	1.00 38.21	N
ATOM	1553	CA	VAL	198	33.424	5.946	30.251	1.00 38.21	C
ATOM	1554	CB	VAL	198	34.481	6.997	30.365	1.00 38.21	C
ATOM	1555	CG1	VAL	198	34.408	7.848	29.086	1.00 38.21	C
ATOM	1556	CG2	VAL	198	34.261	7.792	31.664	1.00 38.21	C
ATOM	1557	C	VAL	198	33.635	5.288	28.930	1.00 38.21	C
ATOM	1558	O	VAL	198	32.974	5.631	27.952	1.00 38.21	O
ATOM	1559	N	ILE	199	34.558	4.314	28.860	1.00 89.75	N
ATOM	1560	CA	ILE	199	34.854	3.729	27.587	1.00 89.75	C
ATOM	1561	CB	ILE	199	35.962	2.724	27.627	1.00 89.75	C
ATOM	1562	CG2	ILE	199	35.468	1.470	28.367	1.00 89.75	C
ATOM	1563	CG1	ILE	199	36.448	2.465	26.195	1.00 89.75	C
ATOM	1564	CD1	ILE	199	37.826	1.818	26.133	1.00 89.75	C
ATOM	1565	C	ILE	199	33.624	3.079	27.039	1.00 89.75	C
ATOM	1566	O	ILE	199	33.362	3.165	25.841	1.00 89.75	O
ATOM	1567	N	PHE	200	32.839	2.397	27.894	1.00 89.96	N

ATOM	1568	CA	PHE	200	31.630	1.782	27.421	1.00	89.96	C
ATOM	1569	CB	PHE	200	30.852	1.003	28.500	1.00	89.96	C
ATOM	1570	CG	PHE	200	31.602	-0.235	28.854	1.00	89.96	C
ATOM	1571	CD1	PHE	200	31.380	-1.404	28.163	1.00	89.96	C
ATOM	1572	CD2	PHE	200	32.524	-0.234	29.873	1.00	89.96	C
ATOM	1573	CE1	PHE	200	32.067	-2.551	28.485	1.00	89.96	C
ATOM	1574	CE2	PHE	200	33.215	-1.376	30.202	1.00	89.96	C
ATOM	1575	CZ	PHE	200	32.987	-2.539	29.506	1.00	89.96	C
ATOM	1576	C	PHE	200	30.716	2.865	26.949	1.00	89.96	C
ATOM	1577	O	PHE	200	30.066	2.737	25.912	1.00	89.96	O
ATOM	1578	N	ILE	201	30.655	3.977	27.703	1.00	80.63	N
ATOM	1579	CA	ILE	201	29.755	5.043	27.379	1.00	80.63	C
ATOM	1580	CB	ILE	201	29.855	6.192	28.337	1.00	80.63	C
ATOM	1581	CG2	ILE	201	29.006	7.347	27.782	1.00	80.63	C
ATOM	1582	CG1	ILE	201	29.445	5.751	29.750	1.00	80.63	C
ATOM	1583	CD1	ILE	201	28.004	5.252	29.838	1.00	80.63	C
ATOM	1584	C	ILE	201	30.096	5.572	26.023	1.00	80.63	C
ATOM	1585	O	ILE	201	29.209	5.830	25.213	1.00	80.63	O
ATOM	1586	N	THR	202	31.397	5.760	25.744	1.00	37.48	N
ATOM	1587	CA	THR	202	31.807	6.304	24.482	1.00	37.48	C
ATOM	1588	CB	THR	202	33.287	6.527	24.402	1.00	37.48	C
ATOM	1589	OG1	THR	202	33.704	7.445	25.402	1.00	37.48	O
ATOM	1590	CG2	THR	202	33.625	7.060	23.001	1.00	37.48	C
ATOM	1591	C	THR	202	31.458	5.378	23.361	1.00	37.48	C
ATOM	1592	O	THR	202	30.931	5.806	22.336	1.00	37.48	O
ATOM	1593	N	GLY	203	31.739	4.073	23.521	1.00	41.12	N
ATOM	1594	CA	GLY	203	31.526	3.189	22.415	1.00	41.12	C
ATOM	1595	C	GLY	203	30.080	3.151	22.045	1.00	41.12	C
ATOM	1596	O	GLY	203	29.751	3.230	20.865	1.00	41.12	O
ATOM	1597	N	GLY	204	29.177	2.973	23.030	1.00	37.67	N
ATOM	1598	CA	GLY	204	27.781	2.894	22.701	1.00	37.67	C
ATOM	1599	C	GLY	204	27.197	4.215	22.296	1.00	37.67	C
ATOM	1600	O	GLY	204	26.590	4.335	21.233	1.00	37.67	O
ATOM	1601	N	LEU	205	27.374	5.245	23.146	1.00	162.54	N
ATOM	1602	CA	LEU	205	26.759	6.523	22.920	1.00	162.54	C
ATOM	1603	CB	LEU	205	26.923	7.478	24.113	1.00	162.54	C
ATOM	1604	CG	LEU	205	26.211	6.995	25.388	1.00	162.54	C
ATOM	1605	CD1	LEU	205	26.403	7.985	26.546	1.00	162.54	C
ATOM	1606	CD2	LEU	205	24.734	6.681	25.118	1.00	162.54	C
ATOM	1607	C	LEU	205	27.354	7.194	21.732	1.00	162.54	C
ATOM	1608	O	LEU	205	26.636	7.703	20.873	1.00	162.54	O
ATOM	1609	N	THR	206	28.696	7.215	21.647	1.00	219.17	N
ATOM	1610	CA	THR	206	29.256	7.898	20.530	1.00	219.17	C
ATOM	1611	CB	THR	206	30.191	9.014	20.932	1.00	219.17	C
ATOM	1612	OG1	THR	206	30.719	9.652	19.775	1.00	219.17	O
ATOM	1613	CG2	THR	206	31.317	8.476	21.831	1.00	219.17	C
ATOM	1614	C	THR	206	29.967	6.931	19.636	1.00	219.17	C
ATOM	1615	O	THR	206	31.188	6.792	19.677	1.00	219.17	O
ATOM	1616	N	GLY	207	29.210	6.320	18.706	1.00	72.13	N
ATOM	1617	CA	GLY	207	29.815	5.402	17.786	1.00	72.13	C
ATOM	1618	C	GLY	207	28.897	4.266	17.454	1.00	72.13	C
ATOM	1619	O	GLY	207	28.471	4.149	16.308	1.00	72.13	O
ATOM	1620	N	LEU	208	28.528	3.402	18.410	1.00	132.03	N
ATOM	1621	CA	LEU	208	27.692	2.314	17.994	1.00	132.03	C
ATOM	1622	CB	LEU	208	27.412	1.310	19.126	1.00	132.03	C
ATOM	1623	CG	LEU	208	26.521	0.131	18.693	1.00	132.03	C
ATOM	1624	CD1	LEU	208	27.202	-0.723	17.614	1.00	132.03	C
ATOM	1625	CD2	LEU	208	26.064	-0.696	19.907	1.00	132.03	C
ATOM	1626	C	LEU	208	26.379	2.862	17.539	1.00	132.03	C
ATOM	1627	O	LEU	208	25.898	2.531	16.456	1.00	132.03	O
ATOM	1628	N	ILE	209	25.778	3.753	18.350	1.00	98.43	N
ATOM	1629	CA	ILE	209	24.467	4.256	18.058	1.00	98.43	C
ATOM	1630	CB	ILE	209	23.887	5.097	19.162	1.00	98.43	C
ATOM	1631	CG2	ILE	209	23.774	4.208	20.407	1.00	98.43	C
ATOM	1632	CG1	ILE	209	24.711	6.373	19.393	1.00	98.43	C
ATOM	1633	CD1	ILE	209	23.982	7.410	20.246	1.00	98.43	C
ATOM	1634	C	ILE	209	24.471	5.096	16.821	1.00	98.43	C
ATOM	1635	O	ILE	209	23.621	4.927	15.950	1.00	98.43	O
ATOM	1636	N	CYS	210	25.452	6.005	16.690	1.00	74.36	N
ATOM	1637	CA	CYS	210	25.447	6.924	15.590	1.00	74.36	C
ATOM	1638	CB	CYS	210	26.640	7.895	15.624	1.00	74.36	C
ATOM	1639	SG	CYS	210	26.631	9.055	14.224	1.00	74.36	S
ATOM	1640	C	CYS	210	25.538	6.148	14.317	1.00	74.36	C
ATOM	1641	O	CYS	210	24.906	6.504	13.325	1.00	74.36	O
ATOM	1642	N	VAL	211	26.340	5.069	14.316	1.00	29.77	N
ATOM	1643	CA	VAL	211	26.532	4.285	13.130	1.00	29.77	C
ATOM	1644	CB	VAL	211	27.533	3.183	13.314	1.00	29.77	C

ATOM	1645	CG1	VAL	211	27.533	2.311	12.046	1.00	29.77	C
ATOM	1646	CG2	VAL	211	28.901	3.812	13.621	1.00	29.77	C
ATOM	1647	C	VAL	211	25.242	3.658	12.704	1.00	29.77	C
ATOM	1648	O	VAL	211	24.898	3.685	11.523	1.00	29.77	O
ATOM	1649	N	LEU	212	24.481	3.079	13.651	1.00	78.58	N
ATOM	1650	CA	LEU	212	23.271	2.410	13.267	1.00	78.58	C
ATOM	1651	CB	LEU	212	22.578	1.656	14.417	1.00	78.58	C
ATOM	1652	CG	LEU	212	23.230	0.297	14.741	1.00	78.58	C
ATOM	1653	CD1	LEU	212	24.700	0.442	15.154	1.00	78.58	C
ATOM	1654	CD2	LEU	212	22.398	-0.485	15.769	1.00	78.58	C
ATOM	1655	C	LEU	212	22.299	3.379	12.676	1.00	78.58	C
ATOM	1656	O	LEU	212	21.649	3.071	11.679	1.00	78.58	O
ATOM	1657	N	CYS	213	22.173	4.583	13.259	1.00	60.93	N
ATOM	1658	CA	CYS	213	21.218	5.520	12.743	1.00	60.93	C
ATOM	1659	CB	CYS	213	21.197	6.841	13.532	1.00	60.93	C
ATOM	1660	SG	CYS	213	19.983	8.025	12.876	1.00	60.93	S
ATOM	1661	C	CYS	213	21.583	5.845	11.329	1.00	60.93	C
ATOM	1662	O	CYS	213	20.736	5.833	10.438	1.00	60.93	O
ATOM	1663	N	LEU	214	22.873	6.119	11.090	1.00	40.30	N
ATOM	1664	CA	LEU	214	23.332	6.491	9.782	1.00	40.30	C
ATOM	1665	CB	LEU	214	24.835	6.806	9.782	1.00	40.30	C
ATOM	1666	CG	LEU	214	25.158	8.064	10.596	1.00	40.30	C
ATOM	1667	CD1	LEU	214	26.661	8.373	10.600	1.00	40.30	C
ATOM	1668	CD2	LEU	214	24.315	9.247	10.101	1.00	40.30	C
ATOM	1669	C	LEU	214	23.103	5.361	8.833	1.00	40.30	C
ATOM	1670	O	LEU	214	22.627	5.571	7.719	1.00	40.30	O
ATOM	1671	N	ILE	215	23.436	4.127	9.249	1.00	31.03	N
ATOM	1672	CA	ILE	215	23.297	2.990	8.387	1.00	31.03	C
ATOM	1673	CB	ILE	215	23.850	1.731	8.990	1.00	31.03	C
ATOM	1674	CG2	ILE	215	23.504	0.565	8.049	1.00	31.03	C
ATOM	1675	CG1	ILE	215	25.357	1.879	9.257	1.00	31.03	C
ATOM	1676	CD1	ILE	215	25.933	0.758	10.117	1.00	31.03	C
ATOM	1677	C	ILE	215	21.851	2.742	8.103	1.00	31.03	C
ATOM	1678	O	ILE	215	21.462	2.542	6.954	1.00	31.03	O
ATOM	1679	N	ILE	216	21.009	2.772	9.152	1.00	75.68	N
ATOM	1680	CA	ILE	216	19.618	2.469	8.988	1.00	75.68	C
ATOM	1681	CB	ILE	216	18.858	2.456	10.286	1.00	75.68	C
ATOM	1682	CG2	ILE	216	18.882	3.865	10.901	1.00	75.68	C
ATOM	1683	CG1	ILE	216	17.445	1.892	10.071	1.00	75.68	C
ATOM	1684	CD1	ILE	216	16.706	1.579	11.372	1.00	75.68	C
ATOM	1685	C	ILE	216	19.012	3.493	8.087	1.00	75.68	C
ATOM	1686	O	ILE	216	18.240	3.165	7.190	1.00	75.68	O
ATOM	1687	N	SER	217	19.374	4.771	8.273	1.00	64.39	N
ATOM	1688	CA	SER	217	18.786	5.798	7.467	1.00	64.39	C
ATOM	1689	CB	SER	217	19.332	7.199	7.795	1.00	64.39	C
ATOM	1690	OG	SER	217	18.711	8.169	6.963	1.00	64.39	O
ATOM	1691	C	SER	217	19.122	5.506	6.045	1.00	64.39	C
ATOM	1692	O	SER	217	18.353	5.816	5.136	1.00	64.39	O
ATOM	1693	N	TYR	218	20.295	4.882	5.821	1.00	41.65	N
ATOM	1694	CA	TYR	218	20.761	4.544	4.509	1.00	41.65	C
ATOM	1695	CB	TYR	218	22.162	3.912	4.525	1.00	41.65	C
ATOM	1696	CG	TYR	218	22.508	3.552	3.120	1.00	41.65	C
ATOM	1697	CD1	TYR	218	22.995	4.499	2.250	1.00	41.65	C
ATOM	1698	CD2	TYR	218	22.341	2.261	2.673	1.00	41.65	C
ATOM	1699	CE1	TYR	218	23.313	4.164	0.955	1.00	41.65	C
ATOM	1700	CE2	TYR	218	22.657	1.919	1.380	1.00	41.65	C
ATOM	1701	CZ	TYR	218	23.143	2.872	0.518	1.00	41.65	C
ATOM	1702	OH	TYR	218	23.467	2.523	-0.811	1.00	41.65	O
ATOM	1703	C	TYR	218	19.830	3.548	3.901	1.00	41.65	C
ATOM	1704	O	TYR	218	19.505	3.639	2.719	1.00	41.65	O
ATOM	1705	N	THR	219	19.353	2.577	4.701	1.00	102.39	N
ATOM	1706	CA	THR	219	18.540	1.533	4.151	1.00	102.39	C
ATOM	1707	CB	THR	219	18.059	0.519	5.152	1.00	102.39	C
ATOM	1708	OG1	THR	219	17.597	-0.640	4.476	1.00	102.39	O
ATOM	1709	CG2	THR	219	16.900	1.117	5.967	1.00	102.39	C
ATOM	1710	C	THR	219	17.338	2.166	3.533	1.00	102.39	C
ATOM	1711	O	THR	219	16.816	1.663	2.540	1.00	102.39	O
ATOM	1712	N	ASN	220	16.849	3.268	4.132	1.00	47.70	N
ATOM	1713	CA	ASN	220	15.704	3.964	3.615	1.00	47.70	C
ATOM	1714	CB	ASN	220	15.253	5.117	4.525	1.00	47.70	C
ATOM	1715	CG	ASN	220	14.707	4.516	5.812	1.00	47.70	C
ATOM	1716	OD1	ASN	220	15.462	4.053	6.666	1.00	47.70	O
ATOM	1717	ND2	ASN	220	13.355	4.528	5.961	1.00	47.70	N
ATOM	1718	C	ASN	220	16.041	4.559	2.281	1.00	47.70	C
ATOM	1719	O	ASN	220	15.266	4.472	1.331	1.00	47.70	O
ATOM	1720	N	VAL	221	17.242	5.152	2.180	1.00	74.05	N
ATOM	1721	CA	VAL	221	17.731	5.824	1.012	1.00	74.05	C

ATOM	1722	CB	VAL	221	19.079	6.447	1.234	1.00	74.05	C
ATOM	1723	CG1	VAL	221	19.542	7.114	-0.072	1.00	74.05	C
ATOM	1724	CG2	VAL	221	18.979	7.413	2.426	1.00	74.05	C
ATOM	1725	C	VAL	221	17.865	4.825	-0.089	1.00	74.05	C
ATOM	1726	O	VAL	221	17.971	5.199	-1.249	1.00	74.05	O
ATOM	1727	N	PHE	222	17.951	3.527	0.234	1.00	91.38	N
ATOM	1728	CA	PHE	222	18.118	2.544	-0.800	1.00	91.38	C
ATOM	1729	CB	PHE	222	18.220	1.115	-0.241	1.00	91.38	C
ATOM	1730	CG	PHE	222	18.377	0.194	-1.401	1.00	91.38	C
ATOM	1731	CD1	PHE	222	19.611	-0.017	-1.973	1.00	91.38	C
ATOM	1732	CD2	PHE	222	17.283	-0.461	-1.919	1.00	91.38	C
ATOM	1733	CE1	PHE	222	19.749	-0.868	-3.044	1.00	91.38	C
ATOM	1734	CE2	PHE	222	17.416	-1.314	-2.989	1.00	91.38	C
ATOM	1735	CZ	PHE	222	18.651	-1.517	-3.555	1.00	91.38	C
ATOM	1736	C	PHE	222	16.962	2.556	-1.761	1.00	91.38	C
ATOM	1737	O	PHE	222	17.164	2.659	-2.970	1.00	91.38	O
ATOM	1738	N	SER	223	15.716	2.465	-1.253	1.00	32.11	N
ATOM	1739	CA	SER	223	14.557	2.393	-2.103	1.00	32.11	C
ATOM	1740	CB	SER	223	13.255	2.172	-1.314	1.00	32.11	C
ATOM	1741	OG	SER	223	12.990	3.298	-0.490	1.00	32.11	O
ATOM	1742	C	SER	223	14.405	3.676	-2.852	1.00	32.11	C
ATOM	1743	O	SER	223	14.082	3.682	-4.039	1.00	32.11	O
ATOM	1744	N	THR	224	14.660	4.803	-2.168	1.00123.53		N
ATOM	1745	CA	THR	224	14.506	6.101	-2.754	1.00123.53		C
ATOM	1746	CB	THR	224	14.381	7.201	-1.738	1.00123.53		C
ATOM	1747	OG1	THR	224	15.543	7.256	-0.923	1.00123.53		O
ATOM	1748	CG2	THR	224	13.139	6.935	-0.873	1.00123.53		C
ATOM	1749	C	THR	224	15.712	6.381	-3.585	1.00123.53		C
ATOM	1750	O	THR	224	16.212	5.494	-4.276	1.00123.53		O
ATOM	1751	N	ILE	225	16.189	7.645	-3.546	1.00131.35		N
ATOM	1752	CA	ILE	225	17.306	8.069	-4.340	1.00131.35		C
ATOM	1753	CB	ILE	225	17.834	9.424	-3.971	1.00131.35		C
ATOM	1754	CG2	ILE	225	16.709	10.448	-4.192	1.00131.35		C
ATOM	1755	CG1	ILE	225	18.392	9.411	-2.538	1.00131.35		C
ATOM	1756	CD1	ILE	225	19.238	10.638	-2.203	1.00131.35		C
ATOM	1757	C	ILE	225	18.427	7.095	-4.176	1.00131.35		C
ATOM	1758	O	ILE	225	18.806	6.742	-3.062	1.00131.35		O
ATOM	1759	N	LEU	226	18.982	6.631	-5.313	1.00136.67		N
ATOM	1760	CA	LEU	226	20.019	5.643	-5.282	1.00136.67		C
ATOM	1761	CB	LEU	226	19.693	4.407	-6.144	1.00136.67		C
ATOM	1762	CG	LEU	226	20.744	3.282	-6.076	1.00136.67		C
ATOM	1763	CD1	LEU	226	20.852	2.705	-4.655	1.00136.67		C
ATOM	1764	CD2	LEU	226	20.475	2.201	-7.135	1.00136.67		C
ATOM	1765	C	LEU	226	21.274	6.267	-5.805	1.00136.67		C
ATOM	1766	O	LEU	226	21.269	7.390	-6.306	1.00136.67		O
ATOM	1767	N	LYS	227	22.396	5.533	-5.681	1.00133.68		N
ATOM	1768	CA	LYS	227	23.682	5.997	-6.109	1.00133.68		C
ATOM	1769	CB	LYS	227	24.796	4.961	-5.884	1.00133.68		C
ATOM	1770	CG	LYS	227	26.174	5.440	-6.347	1.00133.68		C
ATOM	1771	CD	LYS	227	26.757	6.581	-5.514	1.00133.68		C
ATOM	1772	CE	LYS	227	28.122	7.056	-6.016	1.00133.68		C
ATOM	1773	NZ	LYS	227	29.081	5.929	-6.013	1.00133.68		N
ATOM	1774	C	LYS	227	23.633	6.271	-7.573	1.00133.68		C
ATOM	1775	O	LYS	227	24.207	7.254	-8.037	1.00133.68		O
ATOM	1776	N	ILE	228	22.940	5.415	-8.345	1.00138.83		N
ATOM	1777	CA	ILE	228	22.910	5.636	-9.759	1.00138.83		C
ATOM	1778	CB	ILE	228	22.114	4.611	-10.515	1.00138.83		C
ATOM	1779	CG2	ILE	228	20.642	4.727	-10.084	1.00138.83		C
ATOM	1780	CG1	ILE	228	22.340	4.765	-12.028	1.00138.83		C
ATOM	1781	CD1	ILE	228	23.761	4.414	-12.469	1.00138.83		C
ATOM	1782	C	ILE	228	22.302	6.978	-9.989	1.00138.83		C
ATOM	1783	O	ILE	228	21.257	7.320	-9.437	1.00138.83		O
ATOM	1784	N	PRO	229	22.978	7.761	-10.780	1.00149.53		N
ATOM	1785	CA	PRO	229	22.492	9.082	-11.052	1.00149.53		C
ATOM	1786	CD	PRO	229	24.431	7.702	-10.815	1.00149.53		C
ATOM	1787	CB	PRO	229	23.674	9.860	-11.623	1.00149.53		C
ATOM	1788	CG	PRO	229	24.897	9.152	-11.018	1.00149.53		C
ATOM	1789	C	PRO	229	21.312	9.026	-11.962	1.00149.53		C
ATOM	1790	O	PRO	229	21.164	8.056	-12.706	1.00149.53		O
ATOM	1791	N	SER	230	20.457	10.061	-11.902	1.00169.37		N
ATOM	1792	CA	SER	230	19.259	10.183	-12.672	1.00169.37		C
ATOM	1793	CB	SER	230	18.063	9.436	-12.060	1.00169.37		C
ATOM	1794	OG	SER	230	16.912	9.605	-12.877	1.00169.37		O
ATOM	1795	C	SER	230	18.957	11.637	-12.594	1.00169.37		C
ATOM	1796	O	SER	230	19.754	12.460	-13.045	1.00169.37		O
ATOM	1797	N	ALA	231	17.781	11.988	-12.042	1.00	86.23	N
ATOM	1798	CA	ALA	231	17.525	13.378	-11.827	1.00	86.23	C

ATOM	1799	CB	ALA	231	16.194	13.663	-11.112	1.00	86.23	C
ATOM	1800	C	ALA	231	18.641	13.798	-10.931	1.00	86.23	C
ATOM	1801	O	ALA	231	19.176	12.983	-10.182	1.00	86.23	O
ATOM	1802	N	GLN	232	19.042	15.077	-10.997	1.00197.03		N
ATOM	1803	CA	GLN	232	20.214	15.481	-10.281	1.00197.03		C
ATOM	1804	CB	GLN	232	21.124	16.426	-11.086	1.00197.03		C
ATOM	1805	CG	GLN	232	21.711	15.788	-12.347	1.00197.03		C
ATOM	1806	CD	GLN	232	20.616	15.731	-13.402	1.00197.03		C
ATOM	1807	OE1	GLN	232	19.553	16.329	-13.245	1.00197.03		O
ATOM	1808	NE2	GLN	232	20.882	14.993	-14.513	1.00197.03		N
ATOM	1809	C	GLN	232	19.827	16.210	-9.042	1.00197.03		C
ATOM	1810	O	GLN	232	18.838	15.889	-8.387	1.00197.03		O
ATOM	1811	N	GLY	233	20.667	17.194	-8.670	1.00	76.86	N
ATOM	1812	CA	GLY	233	20.408	18.002	-7.521	1.00	76.86	C
ATOM	1813	C	GLY	233	20.586	17.189	-6.282	1.00	76.86	C
ATOM	1814	O	GLY	233	21.708	16.942	-5.842	1.00	76.86	O
ATOM	1815	N	LYS	234	19.461	16.757	-5.688	1.00131.15		N
ATOM	1816	CA	LYS	234	19.468	16.076	-4.429	1.00131.15		C
ATOM	1817	CB	LYS	234	18.064	15.723	-3.907	1.00131.15		C
ATOM	1818	CG	LYS	234	17.327	14.666	-4.730	1.00131.15		C
ATOM	1819	CD	LYS	234	17.029	15.094	-6.166	1.00131.15		C
ATOM	1820	CE	LYS	234	16.294	14.024	-6.975	1.00131.15		C
ATOM	1821	NZ	LYS	234	16.018	14.525	-8.338	1.00131.15		N
ATOM	1822	C	LYS	234	20.246	14.806	-4.524	1.00131.15		C
ATOM	1823	O	LYS	234	20.894	14.400	-3.561	1.00131.15		O
ATOM	1824	N	ARG	235	20.208	14.139	-5.687	1.00	43.56	N
ATOM	1825	CA	ARG	235	20.868	12.874	-5.820	1.00	43.56	C
ATOM	1826	CB	ARG	235	20.692	12.269	-7.224	1.00	43.56	C
ATOM	1827	CG	ARG	235	21.145	10.812	-7.333	1.00	43.56	C
ATOM	1828	CD	ARG	235	20.875	10.199	-8.709	1.00	43.56	C
ATOM	1829	NE	ARG	235	19.405	10.273	-8.946	1.00	43.56	N
ATOM	1830	CZ	ARG	235	18.589	9.258	-8.537	1.00	43.56	C
ATOM	1831	NH1	ARG	235	19.119	8.161	-7.920	1.00	43.56	N
ATOM	1832	NH2	ARG	235	17.242	9.342	-8.742	1.00	43.56	N
ATOM	1833	C	ARG	235	22.333	13.057	-5.568	1.00	43.56	C
ATOM	1834	O	ARG	235	22.966	12.217	-4.931	1.00	43.56	O
ATOM	1835	N	LYS	236	22.914	14.166	-6.064	1.00	88.63	N
ATOM	1836	CA	LYS	236	24.325	14.401	-5.924	1.00	88.63	C
ATOM	1837	CB	LYS	236	24.788	15.678	-6.646	1.00	88.63	C
ATOM	1838	CG	LYS	236	24.614	15.614	-8.165	1.00	88.63	C
ATOM	1839	CD	LYS	236	24.790	16.965	-8.861	1.00	88.63	C
ATOM	1840	CE	LYS	236	24.614	16.899	-10.379	1.00	88.63	C
ATOM	1841	NZ	LYS	236	25.651	16.022	-10.970	1.00	88.63	N
ATOM	1842	C	LYS	236	24.697	14.551	-4.479	1.00	88.63	C
ATOM	1843	O	LYS	236	25.688	13.981	-4.025	1.00	88.63	O
ATOM	1844	N	ALA	237	23.901	15.309	-3.704	1.00	27.44	N
ATOM	1845	CA	ALA	237	24.247	15.558	-2.334	1.00	27.44	C
ATOM	1846	CB	ALA	237	23.222	16.450	-1.614	1.00	27.44	C
ATOM	1847	C	ALA	237	24.298	14.256	-1.603	1.00	27.44	C
ATOM	1848	O	ALA	237	25.194	14.023	-0.792	1.00	27.44	O
ATOM	1849	N	PHE	238	23.337	13.362	-1.888	1.00	40.28	N
ATOM	1850	CA	PHE	238	23.271	12.097	-1.218	1.00	40.28	C
ATOM	1851	CB	PHE	238	22.079	11.237	-1.672	1.00	40.28	C
ATOM	1852	CG	PHE	238	22.219	9.908	-1.010	1.00	40.28	C
ATOM	1853	CD1	PHE	238	21.825	9.727	0.296	1.00	40.28	C
ATOM	1854	CD2	PHE	238	22.745	8.839	-1.699	1.00	40.28	C
ATOM	1855	CE1	PHE	238	21.955	8.501	0.905	1.00	40.28	C
ATOM	1856	CE2	PHE	238	22.877	7.611	-1.096	1.00	40.28	C
ATOM	1857	CZ	PHE	238	22.483	7.440	0.210	1.00	40.28	C
ATOM	1858	C	PHE	238	24.508	11.312	-1.508	1.00	40.28	C
ATOM	1859	O	PHE	238	25.091	10.713	-0.606	1.00	40.28	O
ATOM	1860	N	SER	239	24.956	11.301	-2.776	1.00	72.77	N
ATOM	1861	CA	SER	239	26.093	10.496	-3.111	1.00	72.77	C
ATOM	1862	CB	SER	239	26.490	10.596	-4.595	1.00	72.77	C
ATOM	1863	OG	SER	239	26.949	11.905	-4.894	1.00	72.77	O
ATOM	1864	C	SER	239	27.262	10.946	-2.295	1.00	72.77	C
ATOM	1865	O	SER	239	28.025	10.125	-1.791	1.00	72.77	O
ATOM	1866	N	THR	240	27.432	12.272	-2.146	1.00	34.24	N
ATOM	1867	CA	THR	240	28.540	12.813	-1.412	1.00	34.24	C
ATOM	1868	CB	THR	240	28.609	14.308	-1.511	1.00	34.24	C
ATOM	1869	OG1	THR	240	28.710	14.704	-2.871	1.00	34.24	O
ATOM	1870	CG2	THR	240	29.843	14.793	-0.736	1.00	34.24	C
ATOM	1871	C	THR	240	28.412	12.460	0.036	1.00	34.24	C
ATOM	1872	O	THR	240	29.379	12.066	0.687	1.00	34.24	O
ATOM	1873	N	CYS	241	27.188	12.560	0.574	1.00	39.79	N
ATOM	1874	CA	CYS	241	26.948	12.314	1.962	1.00	39.79	C
ATOM	1875	CB	CYS	241	25.457	12.423	2.292	1.00	39.79	C

ATOM	1876	SG	CYS	241	24.804	14.102	2.049	1.00	39.79	S
ATOM	1877	C	CYS	241	27.374	10.913	2.242	1.00	39.79	C
ATOM	1878	O	CYS	241	27.889	10.615	3.319	1.00	39.79	O
ATOM	1879	N	SER	242	27.129	10.011	1.277	1.00	68.86	N
ATOM	1880	CA	SER	242	27.499	8.634	1.409	1.00	68.86	C
ATOM	1881	CB	SER	242	26.963	7.766	0.259	1.00	68.86	C
ATOM	1882	OG	SER	242	27.360	6.415	0.441	1.00	68.86	O
ATOM	1883	C	SER	242	28.995	8.509	1.405	1.00	68.86	C
ATOM	1884	O	SER	242	29.557	7.754	2.196	1.00	68.86	O
ATOM	1885	N	SER	243	29.682	9.251	0.515	1.00	66.82	N
ATOM	1886	CA	SER	243	31.112	9.130	0.404	1.00	66.82	C
ATOM	1887	CB	SER	243	31.708	9.971	-0.739	1.00	66.82	C
ATOM	1888	OG	SER	243	31.580	11.355	-0.455	1.00	66.82	O
ATOM	1889	C	SER	243	31.738	9.592	1.680	1.00	66.82	C
ATOM	1890	O	SER	243	32.718	9.012	2.144	1.00	66.82	O
ATOM	1891	N	HIS	244	31.163	10.638	2.298	1.00	80.02	N
ATOM	1892	CA	HIS	244	31.710	11.160	3.514	1.00	80.02	C
ATOM	1893	ND1	HIS	244	30.769	14.065	2.158	1.00	80.02	N
ATOM	1894	CG	HIS	244	31.310	13.660	3.357	1.00	80.02	C
ATOM	1895	CB	HIS	244	30.961	12.386	4.067	1.00	80.02	C
ATOM	1896	NE2	HIS	244	32.207	15.646	2.774	1.00	80.02	N
ATOM	1897	CD2	HIS	244	32.186	14.637	3.720	1.00	80.02	C
ATOM	1898	CE1	HIS	244	31.341	15.258	1.856	1.00	80.02	C
ATOM	1899	C	HIS	244	31.659	10.089	4.552	1.00	80.02	C
ATOM	1900	O	HIS	244	32.516	10.031	5.430	1.00	80.02	O
ATOM	1901	N	LEU	245	30.623	9.236	4.508	1.00	42.24	N
ATOM	1902	CA	LEU	245	30.515	8.171	5.462	1.00	42.24	C
ATOM	1903	CB	LEU	245	29.225	7.351	5.293	1.00	42.24	C
ATOM	1904	CG	LEU	245	29.150	6.122	6.220	1.00	42.24	C
ATOM	1905	CD1	LEU	245	29.142	6.527	7.702	1.00	42.24	C
ATOM	1906	CD2	LEU	245	27.971	5.211	5.843	1.00	42.24	C
ATOM	1907	C	LEU	245	31.652	7.213	5.288	1.00	42.24	C
ATOM	1908	O	LEU	245	32.282	6.804	6.262	1.00	42.24	O
ATOM	1909	N	SER	246	31.954	6.839	4.031	1.00	66.47	N
ATOM	1910	CA	SER	246	32.967	5.854	3.786	1.00	66.47	C
ATOM	1911	CB	SER	246	33.114	5.504	2.294	1.00	66.47	C
ATOM	1912	OG	SER	246	33.553	6.639	1.562	1.00	66.47	O
ATOM	1913	C	SER	246	34.284	6.368	4.266	1.00	66.47	C
ATOM	1914	O	SER	246	35.039	5.649	4.917	1.00	66.47	O
ATOM	1915	N	VAL	247	34.585	7.646	3.986	1.00	83.54	N
ATOM	1916	CA	VAL	247	35.868	8.172	4.347	1.00	83.54	C
ATOM	1917	CB	VAL	247	36.078	9.594	3.911	1.00	83.54	C
ATOM	1918	CG1	VAL	247	35.109	10.505	4.679	1.00	83.54	C
ATOM	1919	CG2	VAL	247	37.558	9.949	4.126	1.00	83.54	C
ATOM	1920	C	VAL	247	36.025	8.117	5.832	1.00	83.54	C
ATOM	1921	O	VAL	247	37.107	7.826	6.336	1.00	83.54	O
ATOM	1922	N	VAL	248	34.945	8.407	6.577	1.00	33.78	N
ATOM	1923	CA	VAL	248	35.019	8.434	8.008	1.00	33.78	C
ATOM	1924	CB	VAL	248	33.717	8.843	8.634	1.00	33.78	C
ATOM	1925	CG1	VAL	248	33.865	8.773	10.163	1.00	33.78	C
ATOM	1926	CG2	VAL	248	33.338	10.235	8.103	1.00	33.78	C
ATOM	1927	C	VAL	248	35.371	7.076	8.541	1.00	33.78	C
ATOM	1928	O	VAL	248	36.255	6.948	9.386	1.00	33.78	O
ATOM	1929	N	SER	249	34.702	6.021	8.040	1.00	74.64	N
ATOM	1930	CA	SER	249	34.882	4.692	8.555	1.00	74.64	C
ATOM	1931	CB	SER	249	33.981	3.660	7.853	1.00	74.64	C
ATOM	1932	OG	SER	249	32.614	3.965	8.084	1.00	74.64	O
ATOM	1933	C	SER	249	36.292	4.248	8.360	1.00	74.64	C
ATOM	1934	O	SER	249	36.917	3.730	9.284	1.00	74.64	O
ATOM	1935	N	LEU	250	36.848	4.461	7.156	1.00	83.37	N
ATOM	1936	CA	LEU	250	38.172	3.976	6.919	1.00	83.37	C
ATOM	1937	CB	LEU	250	38.675	4.248	5.490	1.00	83.37	C
ATOM	1938	CG	LEU	250	38.061	3.316	4.425	1.00	83.37	C
ATOM	1939	CD1	LEU	250	36.529	3.413	4.386	1.00	83.37	C
ATOM	1940	CD2	LEU	250	38.702	3.555	3.049	1.00	83.37	C
ATOM	1941	C	LEU	250	39.103	4.633	7.880	1.00	83.37	C
ATOM	1942	O	LEU	250	39.979	3.985	8.451	1.00	83.37	O
ATOM	1943	N	PHE	251	38.945	5.948	8.087	1.00122.75	N	
ATOM	1944	CA	PHE	251	39.840	6.640	8.961	1.00122.75	C	
ATOM	1945	CB	PHE	251	39.792	8.158	8.759	1.00122.75	C	
ATOM	1946	CG	PHE	251	40.483	8.309	7.446	1.00122.75	C	
ATOM	1947	CD1	PHE	251	39.847	7.954	6.278	1.00122.75	C	
ATOM	1948	CD2	PHE	251	41.772	8.785	7.379	1.00122.75	C	
ATOM	1949	CE1	PHE	251	40.479	8.077	5.063	1.00122.75	C	
ATOM	1950	CE2	PHE	251	42.410	8.911	6.168	1.00122.75	C	
ATOM	1951	CZ	PHE	251	41.765	8.556	5.007	1.00122.75	C	
ATOM	1952	C	PHE	251	39.667	6.256	10.405	1.00122.75	C	

ATOM	1953	O	PHE	251	40.659	6.128	11.118	1.00122.75	O
ATOM	1954	N	PHE	252	38.413	6.128	10.890	1.00114.97	N
ATOM	1955	CA	PHE	252	38.104	5.811	12.266	1.00114.97	C
ATOM	1956	CB	PHE	252	36.691	6.274	12.669	1.00114.97	C
ATOM	1957	CG	PHE	252	36.576	6.193	14.155	1.00114.97	C
ATOM	1958	CD1	PHE	252	37.132	7.176	14.943	1.00114.97	C
ATOM	1959	CD2	PHE	252	35.908	5.154	14.763	1.00114.97	C
ATOM	1960	CE1	PHE	252	37.032	7.122	16.313	1.00114.97	C
ATOM	1961	CE2	PHE	252	35.805	5.096	16.134	1.00114.97	C
ATOM	1962	CZ	PHE	252	36.368	6.079	16.912	1.00114.97	C
ATOM	1963	C	PHE	252	38.221	4.354	12.633	1.00114.97	C
ATOM	1964	O	PHE	252	38.603	4.027	13.755	1.00114.97	O
ATOM	1965	N	GLY	253	37.880	3.433	11.712	1.00 33.86	N
ATOM	1966	CA	GLY	253	37.741	2.042	12.063	1.00 33.86	C
ATOM	1967	C	GLY	253	39.000	1.453	12.622	1.00 33.86	C
ATOM	1968	O	GLY	253	38.952	0.730	13.616	1.00 33.86	O
ATOM	1969	N	THR	254	40.163	1.731	12.013	1.00 31.83	N
ATOM	1970	CA	THR	254	41.364	1.106	12.488	1.00 31.83	C
ATOM	1971	CB	THR	254	42.568	1.468	11.670	1.00 31.83	C
ATOM	1972	OG1	THR	254	42.825	2.862	11.761	1.00 31.83	O
ATOM	1973	CG2	THR	254	42.303	1.072	10.208	1.00 31.83	C
ATOM	1974	C	THR	254	41.630	1.543	13.893	1.00 31.83	C
ATOM	1975	O	THR	254	41.980	0.736	14.753	1.00 31.83	O
ATOM	1976	N	SER	255	41.473	2.846	14.169	1.00 38.11	N
ATOM	1977	CA	SER	255	41.753	3.337	15.483	1.00 38.11	C
ATOM	1978	CB	SER	255	41.587	4.863	15.589	1.00 38.11	C
ATOM	1979	OG	SER	255	41.879	5.295	16.910	1.00 38.11	O
ATOM	1980	C	SER	255	40.816	2.709	16.458	1.00 38.11	C
ATOM	1981	O	SER	255	41.237	2.144	17.466	1.00 38.11	O
ATOM	1982	N	PHE	256	39.506	2.761	16.154	1.00100.95	N
ATOM	1983	CA	PHE	256	38.510	2.267	17.064	1.00100.95	C
ATOM	1984	CB	PHE	256	37.067	2.467	16.581	1.00100.95	C
ATOM	1985	CG	PHE	256	36.200	1.892	17.648	1.00100.95	C
ATOM	1986	CD1	PHE	256	35.885	2.624	18.773	1.00100.95	C
ATOM	1987	CD2	PHE	256	35.706	0.616	17.527	1.00100.95	C
ATOM	1988	CE1	PHE	256	35.087	2.087	19.756	1.00100.95	C
ATOM	1989	CE2	PHE	256	34.907	0.073	18.506	1.00100.95	C
ATOM	1990	CZ	PHE	256	34.597	0.810	19.624	1.00100.95	C
ATOM	1991	C	PHE	256	38.694	0.802	17.271	1.00100.95	C
ATOM	1992	O	PHE	256	38.573	0.320	18.395	1.00100.95	O
ATOM	1993	N	CYS	257	38.979	0.041	16.200	1.00120.09	N
ATOM	1994	CA	CYS	257	39.069	-1.378	16.385	1.00120.09	C
ATOM	1995	CB	CYS	257	39.300	-2.166	15.079	1.00120.09	C
ATOM	1996	SG	CYS	257	40.933	-1.895	14.333	1.00120.09	S
ATOM	1997	C	CYS	257	40.187	-1.686	17.328	1.00120.09	C
ATOM	1998	O	CYS	257	40.023	-2.473	18.258	1.00120.09	O
ATOM	1999	N	VAL	258	41.356	-1.053	17.129	1.00 42.40	N
ATOM	2000	CA	VAL	258	42.470	-1.318	17.990	1.00 42.40	C
ATOM	2001	CB	VAL	258	43.698	-0.556	17.590	1.00 42.40	C
ATOM	2002	CG1	VAL	258	44.812	-0.851	18.609	1.00 42.40	C
ATOM	2003	CG2	VAL	258	44.057	-0.931	16.141	1.00 42.40	C
ATOM	2004	C	VAL	258	42.096	-0.871	19.363	1.00 42.40	C
ATOM	2005	O	VAL	258	42.382	-1.540	20.356	1.00 42.40	O
ATOM	2006	N	ASP	259	41.421	0.287	19.440	1.00 98.64	N
ATOM	2007	CA	ASP	259	41.053	0.871	20.689	1.00 98.64	C
ATOM	2008	CB	ASP	259	40.332	2.221	20.519	1.00 98.64	C
ATOM	2009	CG	ASP	259	40.191	2.883	21.884	1.00 98.64	C
ATOM	2010	OD1	ASP	259	39.591	2.257	22.799	1.00 98.64	O
ATOM	2011	OD2	ASP	259	40.671	4.039	22.024	1.00 98.64	O
ATOM	2012	C	ASP	259	40.141	-0.050	21.403	1.00 98.64	C
ATOM	2013	O	ASP	259	40.268	-0.184	22.604	1.00 98.64	O
ATOM	2014	N	PHE	260	39.191	-0.711	20.724	1.00 49.18	N
ATOM	2015	CA	PHE	260	38.284	-1.569	21.435	1.00 49.18	C
ATOM	2016	CB	PHE	260	37.160	-2.110	20.534	1.00 49.18	C
ATOM	2017	CG	PHE	260	36.203	-2.855	21.401	1.00 49.18	C
ATOM	2018	CD1	PHE	260	35.222	-2.181	22.091	1.00 49.18	C
ATOM	2019	CD2	PHE	260	36.280	-4.223	21.521	1.00 49.18	C
ATOM	2020	CE1	PHE	260	34.334	-2.860	22.893	1.00 49.18	C
ATOM	2021	CE2	PHE	260	35.395	-4.907	22.321	1.00 49.18	C
ATOM	2022	CZ	PHE	260	34.420	-4.226	23.009	1.00 49.18	C
ATOM	2023	C	PHE	260	39.026	-2.743	21.994	1.00 49.18	C
ATOM	2024	O	PHE	260	38.831	-3.131	23.146	1.00 49.18	O
ATOM	2025	N	SER	261	39.927	-3.326	21.186	1.00 81.89	N
ATOM	2026	CA	SER	261	40.608	-4.527	21.571	1.00 81.89	C
ATOM	2027	CB	SER	261	41.570	-5.041	20.486	1.00 81.89	C
ATOM	2028	OG	SER	261	42.622	-4.110	20.282	1.00 81.89	O
ATOM	2029	C	SER	261	41.408	-4.292	22.812	1.00 81.89	C

ATOM	2030	O	SER	261	41.492	-5.165	23.673	1.00	81.89	O
ATOM	2031	N	SER	262	41.996	-3.093	22.960	1.00	93.16	N
ATOM	2032	CA	SER	262	42.848	-2.865	24.093	1.00	93.16	C
ATOM	2033	CB	SER	262	43.451	-1.448	24.115	1.00	93.16	C
ATOM	2034	OG	SER	262	44.283	-1.291	25.256	1.00	93.16	O
ATOM	2035	C	SER	262	42.083	-3.075	25.367	1.00	93.16	C
ATOM	2036	O	SER	262	42.603	-3.709	26.283	1.00	93.16	O
ATOM	2037	N	PRO	263	40.880	-2.574	25.505	1.00177.21		N
ATOM	2038	CA	PRO	263	40.168	-2.842	26.707	1.00177.21		C
ATOM	2039	CD	PRO	263	40.594	-1.240	25.097	1.00177.21		C
ATOM	2040	CB	PRO	263	38.919	-1.985	26.683	1.00177.21		C
ATOM	2041	CG	PRO	263	39.419	-0.743	25.957	1.00177.21		C
ATOM	2042	C	PRO	263	39.884	-4.276	26.787	1.00177.21		C
ATOM	2043	O	PRO	263	39.771	-4.792	27.896	1.00177.21		O
ATOM	2044	N	SER	264	39.754	-4.926	25.623	1.00104.38		N
ATOM	2045	CA	SER	264	39.494	-6.323	25.666	1.00104.38		C
ATOM	2046	CB	SER	264	39.435	-6.965	24.271	1.00104.38		C
ATOM	2047	OG	SER	264	38.376	-6.393	23.519	1.00104.38		O
ATOM	2048	C	SER	264	40.651	-6.917	26.389	1.00104.38		C
ATOM	2049	O	SER	264	40.469	-7.623	27.379	1.00104.38		O
ATOM	2050	N	THR	265	41.881	-6.631	25.918	1.00227.60		N
ATOM	2051	CA	THR	265	43.023	-7.164	26.600	1.00227.60		C
ATOM	2052	CB	THR	265	43.705	-8.273	25.840	1.00227.60		C
ATOM	2053	OG1	THR	265	44.819	-8.757	26.574	1.00227.60		O
ATOM	2054	CG2	THR	265	44.120	-7.789	24.441	1.00227.60		C
ATOM	2055	C	THR	265	44.002	-6.068	26.892	1.00227.60		C
ATOM	2056	O	THR	265	44.869	-5.736	26.084	1.00227.60		O
ATOM	2057	N	HIS	266	43.902	-5.487	28.099	1.00145.71		N
ATOM	2058	CA	HIS	266	44.767	-4.408	28.471	1.00145.71		C
ATOM	2059	ND1	HIS	266	41.938	-4.172	30.289	1.00145.71		N
ATOM	2060	CG	HIS	266	43.007	-3.357	29.987	1.00145.71		C
ATOM	2061	CB	HIS	266	44.419	-3.843	29.857	1.00145.71		C
ATOM	2062	NE2	HIS	266	41.129	-2.111	30.088	1.00145.71		N
ATOM	2063	CD2	HIS	266	42.495	-2.102	29.867	1.00145.71		C
ATOM	2064	CE1	HIS	266	40.841	-3.376	30.336	1.00145.71		C
ATOM	2065	C	HIS	266	46.186	-4.896	28.553	1.00145.71		C
ATOM	2066	O	HIS	266	47.096	-4.322	27.959	1.00145.71		O
ATOM	2067	N	SER	267	46.392	-6.017	29.263	1.00103.44		N
ATOM	2068	CA	SER	267	47.694	-6.531	29.592	1.00103.44		C
ATOM	2069	CB	SER	267	47.625	-7.719	30.564	1.00103.44		C
ATOM	2070	OG	SER	267	48.932	-8.184	30.865	1.00103.44		O
ATOM	2071	C	SER	267	48.463	-6.983	28.391	1.00103.44		C
ATOM	2072	O	SER	267	49.689	-7.064	28.448	1.00103.44		O
ATOM	2073	N	ALA	268	47.788	-7.289	27.269	1.00	49.27	N
ATOM	2074	CA	ALA	268	48.504	-7.800	26.132	1.00	49.27	C
ATOM	2075	CB	ALA	268	47.609	-8.087	24.915	1.00	49.27	C
ATOM	2076	C	ALA	268	49.531	-6.793	25.722	1.00	49.27	C
ATOM	2077	O	ALA	268	49.403	-5.602	25.999	1.00	49.27	O
ATOM	2078	N	GLN	269	50.616	-7.262	25.075	1.00130.72		N
ATOM	2079	CA	GLN	269	51.647	-6.346	24.691	1.00130.72		C
ATOM	2080	CB	GLN	269	53.059	-6.964	24.729	1.00130.72		C
ATOM	2081	CG	GLN	269	53.277	-8.118	23.749	1.00130.72		C
ATOM	2082	CD	GLN	269	53.761	-7.538	22.428	1.00130.72		C
ATOM	2083	OE1	GLN	269	53.870	-8.247	21.429	1.00130.72		O
ATOM	2084	NE2	GLN	269	54.065	-6.212	22.420	1.00130.72		N
ATOM	2085	C	GLN	269	51.360	-5.857	23.308	1.00130.72		C
ATOM	2086	O	GLN	269	51.169	-6.642	22.380	1.00130.72		O
ATOM	2087	N	LYS	270	51.302	-4.518	23.152	1.00200.81		N
ATOM	2088	CA	LYS	270	51.021	-3.919	21.881	1.00200.81		C
ATOM	2089	CB	LYS	270	49.698	-3.132	21.843	1.00200.81		C
ATOM	2090	CG	LYS	270	49.634	-1.982	22.850	1.00200.81		C
ATOM	2091	CD	LYS	270	49.682	-2.438	24.310	1.00200.81		C
ATOM	2092	CE	LYS	270	48.313	-2.821	24.878	1.00200.81		C
ATOM	2093	NZ	LYS	270	47.752	-3.965	24.125	1.00200.81		N
ATOM	2094	C	LYS	270	52.127	-2.957	21.569	1.00200.81		C
ATOM	2095	O	LYS	270	52.861	-2.536	22.461	1.00200.81		O
ATOM	2096	N	ASP	271	52.270	-2.607	20.271	1.00203.45		N
ATOM	2097	CA	ASP	271	53.311	-1.748	19.774	1.00203.45		C
ATOM	2098	CB	ASP	271	53.842	-2.169	18.394	1.00203.45		C
ATOM	2099	CG	ASP	271	52.700	-2.074	17.392	1.00203.45		C
ATOM	2100	OD1	ASP	271	51.563	-2.483	17.748	1.00203.45		O
ATOM	2101	OD2	ASP	271	52.954	-1.598	16.253	1.00203.45		O
ATOM	2102	C	ASP	271	52.834	-0.326	19.660	1.00203.45		C
ATOM	2103	O	ASP	271	51.979	0.124	20.420	1.00203.45		O
ATOM	2104	N	THR	272	53.413	0.399	18.672	1.00220.18		N
ATOM	2105	CA	THR	272	53.241	1.802	18.369	1.00220.18		C
ATOM	2106	CB	THR	272	54.043	2.229	17.191	1.00220.18		C

ATOM	2107	OG1	THR	272	53.463	1.724	15.997	1.00220.18	O
ATOM	2108	CG2	THR	272	55.417	1.594	17.348	1.00220.18	C
ATOM	2109	C	THR	272	51.837	2.056	17.915	1.00220.18	C
ATOM	2110	O	THR	272	51.014	1.147	17.928	1.00220.18	O
ATOM	2111	N	VAL	273	51.524	3.321	17.520	1.00255.67	N
ATOM	2112	CA	VAL	273	50.187	3.635	17.095	1.00255.67	C
ATOM	2113	CB	VAL	273	49.462	4.456	18.110	1.00255.67	C
ATOM	2114	CG1	VAL	273	49.207	3.544	19.320	1.00255.67	C
ATOM	2115	CG2	VAL	273	50.336	5.675	18.459	1.00255.67	C
ATOM	2116	C	VAL	273	50.107	4.322	15.763	1.00255.67	C
ATOM	2117	O	VAL	273	50.102	5.549	15.669	1.00255.67	O
ATOM	2118	N	ALA	274	50.021	3.518	14.684	1.00 61.05	N
ATOM	2119	CA	ALA	274	49.829	4.016	13.351	1.00 61.05	C
ATOM	2120	CB	ALA	274	50.051	2.940	12.276	1.00 61.05	C
ATOM	2121	C	ALA	274	48.431	4.537	13.176	1.00 61.05	C
ATOM	2122	O	ALA	274	48.219	5.600	12.596	1.00 61.05	O
ATOM	2123	N	SER	275	47.430	3.796	13.695	1.00 38.19	N
ATOM	2124	CA	SER	275	46.046	4.113	13.466	1.00 38.19	C
ATOM	2125	CB	SER	275	45.092	3.078	14.085	1.00 38.19	C
ATOM	2126	OG	SER	275	45.229	3.067	15.499	1.00 38.19	O
ATOM	2127	C	SER	275	45.715	5.445	14.050	1.00 38.19	C
ATOM	2128	O	SER	275	44.975	6.224	13.452	1.00 38.19	O
ATOM	2129	N	VAL	276	46.256	5.741	15.242	1.00 97.40	N
ATOM	2130	CA	VAL	276	45.933	6.975	15.888	1.00 97.40	C
ATOM	2131	CB	VAL	276	46.530	7.074	17.256	1.00 97.40	C
ATOM	2132	CG1	VAL	276	45.902	5.980	18.137	1.00 97.40	C
ATOM	2133	CG2	VAL	276	48.053	6.957	17.116	1.00 97.40	C
ATOM	2134	C	VAL	276	46.424	8.120	15.054	1.00 97.40	C
ATOM	2135	O	VAL	276	45.710	9.101	14.866	1.00 97.40	O
ATOM	2136	N	MET	277	47.662	8.041	14.532	1.00137.93	N
ATOM	2137	CA	MET	277	48.181	9.114	13.725	1.00137.93	C
ATOM	2138	CB	MET	277	49.681	8.979	13.390	1.00137.93	C
ATOM	2139	CG	MET	277	50.028	7.896	12.372	1.00137.93	C
ATOM	2140	SD	MET	277	51.780	7.876	11.886	1.00137.93	S
ATOM	2141	CE	MET	277	51.682	9.369	10.854	1.00137.93	C
ATOM	2142	C	MET	277	47.435	9.184	12.430	1.00137.93	C
ATOM	2143	O	MET	277	47.205	10.263	11.889	1.00137.93	O
ATOM	2144	N	TYR	278	47.032	8.006	11.924	1.00137.89	N
ATOM	2145	CA	TYR	278	46.419	7.809	10.640	1.00137.89	C
ATOM	2146	CB	TYR	278	46.081	6.318	10.453	1.00137.89	C
ATOM	2147	CG	TYR	278	46.429	5.889	9.071	1.00137.89	C
ATOM	2148	CD1	TYR	278	45.604	6.083	7.986	1.00137.89	C
ATOM	2149	CD2	TYR	278	47.635	5.258	8.892	1.00137.89	C
ATOM	2150	CE1	TYR	278	45.997	5.654	6.737	1.00137.89	C
ATOM	2151	CE2	TYR	278	48.030	4.830	7.653	1.00137.89	C
ATOM	2152	CZ	TYR	278	47.211	5.028	6.569	1.00137.89	C
ATOM	2153	OH	TYR	278	47.620	4.584	5.292	1.00137.89	O
ATOM	2154	C	TYR	278	45.120	8.566	10.613	1.00137.89	C
ATOM	2155	O	TYR	278	44.777	9.216	9.626	1.00137.89	O
ATOM	2156	N	THR	279	44.381	8.512	11.735	1.00128.73	N
ATOM	2157	CA	THR	279	43.066	9.074	11.898	1.00128.73	C
ATOM	2158	CB	THR	279	42.453	8.794	13.243	1.00128.73	C
ATOM	2159	OG1	THR	279	41.058	9.050	13.201	1.00128.73	O
ATOM	2160	CG2	THR	279	43.103	9.710	14.292	1.00128.73	C
ATOM	2161	C	THR	279	43.124	10.568	11.751	1.00128.73	C
ATOM	2162	O	THR	279	42.122	11.205	11.434	1.00128.73	O
ATOM	2163	N	VAL	280	44.309	11.156	11.987	1.00 74.67	N
ATOM	2164	CA	VAL	280	44.573	12.571	11.982	1.00 74.67	C
ATOM	2165	CB	VAL	280	46.025	12.878	12.249	1.00 74.67	C
ATOM	2166	CG1	VAL	280	46.253	14.398	12.188	1.00 74.67	C
ATOM	2167	CG2	VAL	280	46.405	12.262	13.604	1.00 74.67	C
ATOM	2168	C	VAL	280	44.222	13.148	10.641	1.00 74.67	C
ATOM	2169	O	VAL	280	44.103	14.361	10.497	1.00 74.67	O
ATOM	2170	N	VAL	281	44.116	12.305	9.604	1.00 59.96	N
ATOM	2171	CA	VAL	281	43.759	12.746	8.282	1.00 59.96	C
ATOM	2172	CB	VAL	281	43.737	11.630	7.277	1.00 59.96	C
ATOM	2173	CG1	VAL	281	43.225	12.177	5.935	1.00 59.96	C
ATOM	2174	CG2	VAL	281	45.145	11.018	7.202	1.00 59.96	C
ATOM	2175	C	VAL	281	42.375	13.331	8.325	1.00 59.96	C
ATOM	2176	O	VAL	281	41.985	14.102	7.449	1.00 59.96	O
ATOM	2177	N	THR	282	41.587	12.974	9.354	1.00 81.33	N
ATOM	2178	CA	THR	282	40.212	13.368	9.444	1.00 81.33	C
ATOM	2179	CB	THR	282	39.488	12.764	10.623	1.00 81.33	C
ATOM	2180	OG1	THR	282	40.092	13.114	11.858	1.00 81.33	O
ATOM	2181	CG2	THR	282	39.501	11.237	10.452	1.00 81.33	C
ATOM	2182	C	THR	282	40.066	14.867	9.407	1.00 81.33	C
ATOM	2183	O	THR	282	39.015	15.338	8.976	1.00 81.33	O

ATOM	2184	N	PRO	283	40.983	15.671	9.870	1.00171.54	N
ATOM	2185	CA	PRO	283	40.792	17.082	9.671	1.00171.54	C
ATOM	2186	CD	PRO	283	41.601	15.423	11.161	1.00171.54	C
ATOM	2187	CB	PRO	283	41.782	17.778	10.601	1.00171.54	C
ATOM	2188	CG	PRO	283	41.891	16.800	11.781	1.00171.54	C
ATOM	2189	C	PRO	283	40.844	17.563	8.241	1.00171.54	C
ATOM	2190	O	PRO	283	40.353	18.660	7.990	1.00171.54	O
ATOM	2191	N	MET	284	41.589	16.881	7.344	1.00160.37	N
ATOM	2192	CA	MET	284	41.684	17.227	5.939	1.00160.37	C
ATOM	2193	CB	MET	284	43.025	16.777	5.333	1.00160.37	C
ATOM	2194	CG	MET	284	43.196	17.155	3.860	1.00160.37	C
ATOM	2195	SD	MET	284	44.777	16.635	3.124	1.00160.37	S
ATOM	2196	CE	MET	284	44.429	17.324	1.481	1.00160.37	C
ATOM	2197	C	MET	284	40.616	16.723	4.996	1.00160.37	C
ATOM	2198	O	MET	284	40.138	17.456	4.131	1.00160.37	O
ATOM	2199	N	LEU	285	40.201	15.453	5.157	1.00 63.80	N
ATOM	2200	CA	LEU	285	39.469	14.748	4.133	1.00 63.80	C
ATOM	2201	CB	LEU	285	39.191	13.288	4.518	1.00 63.80	C
ATOM	2202	CG	LEU	285	40.473	12.461	4.713	1.00 63.80	C
ATOM	2203	CD1	LEU	285	40.138	11.010	5.081	1.00 63.80	C
ATOM	2204	CD2	LEU	285	41.406	12.577	3.497	1.00 63.80	C
ATOM	2205	C	LEU	285	38.157	15.366	3.788	1.00 63.80	C
ATOM	2206	O	LEU	285	37.788	15.418	2.615	1.00 63.80	O
ATOM	2207	N	ASN	286	37.402	15.851	4.780	1.00129.53	N
ATOM	2208	CA	ASN	286	36.088	16.301	4.446	1.00129.53	C
ATOM	2209	CB	ASN	286	35.182	16.564	5.671	1.00129.53	C
ATOM	2210	CG	ASN	286	35.902	17.401	6.714	1.00129.53	C
ATOM	2211	OD1	ASN	286	36.774	16.908	7.429	1.00129.53	O
ATOM	2212	ND2	ASN	286	35.533	18.706	6.800	1.00129.53	N
ATOM	2213	C	ASN	286	36.073	17.438	3.460	1.00129.53	C
ATOM	2214	O	ASN	286	35.243	17.384	2.552	1.00129.53	O
ATOM	2215	N	PRO	287	36.902	18.453	3.514	1.00 72.06	N
ATOM	2216	CA	PRO	287	36.806	19.517	2.552	1.00 72.06	C
ATOM	2217	CD	PRO	287	37.612	18.860	4.715	1.00 72.06	C
ATOM	2218	CB	PRO	287	37.739	20.619	3.053	1.00 72.06	C
ATOM	2219	CG	PRO	287	37.827	20.373	4.570	1.00 72.06	C
ATOM	2220	C	PRO	287	37.148	19.053	1.173	1.00 72.06	C
ATOM	2221	O	PRO	287	36.623	19.605	0.207	1.00 72.06	O
ATOM	2222	N	PHE	288	38.043	18.057	1.063	1.00 46.31	N
ATOM	2223	CA	PHE	288	38.500	17.579	-0.208	1.00 46.31	C
ATOM	2224	CB	PHE	288	39.620	16.537	-0.036	1.00 46.31	C
ATOM	2225	CG	PHE	288	40.203	16.201	-1.363	1.00 46.31	C
ATOM	2226	CD1	PHE	288	40.997	17.110	-2.025	1.00 46.31	C
ATOM	2227	CD2	PHE	288	39.987	14.967	-1.930	1.00 46.31	C
ATOM	2228	CE1	PHE	288	41.548	16.802	-3.247	1.00 46.31	C
ATOM	2229	CE2	PHE	288	40.537	14.655	-3.150	1.00 46.31	C
ATOM	2230	CZ	PHE	288	41.316	15.572	-3.813	1.00 46.31	C
ATOM	2231	C	PHE	288	37.350	16.953	-0.928	1.00 46.31	C
ATOM	2232	O	PHE	288	37.109	17.230	-2.102	1.00 46.31	O
ATOM	2233	N	ILE	289	36.586	16.106	-0.218	1.00 34.08	N
ATOM	2234	CA	ILE	289	35.482	15.418	-0.819	1.00 34.08	C
ATOM	2235	CB	ILE	289	34.804	14.472	0.129	1.00 34.08	C
ATOM	2236	CG2	ILE	289	33.555	13.910	-0.572	1.00 34.08	C
ATOM	2237	CG1	ILE	289	35.787	13.385	0.595	1.00 34.08	C
ATOM	2238	CD1	ILE	289	35.269	12.556	1.769	1.00 34.08	C
ATOM	2239	C	ILE	289	34.471	16.434	-1.244	1.00 34.08	C
ATOM	2240	O	ILE	289	33.868	16.319	-2.310	1.00 34.08	O
ATOM	2241	N	TYR	290	34.262	17.457	-0.398	1.00 81.90	N
ATOM	2242	CA	TYR	290	33.256	18.456	-0.610	1.00 81.90	C
ATOM	2243	CB	TYR	290	33.185	19.388	0.616	1.00 81.90	C
ATOM	2244	CG	TYR	290	31.986	20.269	0.559	1.00 81.90	C
ATOM	2245	CD1	TYR	290	30.722	19.726	0.542	1.00 81.90	C
ATOM	2246	CD2	TYR	290	32.125	21.636	0.590	1.00 81.90	C
ATOM	2247	CE1	TYR	290	29.612	20.536	0.511	1.00 81.90	C
ATOM	2248	CE2	TYR	290	31.019	22.450	0.561	1.00 81.90	C
ATOM	2249	CZ	TYR	290	29.760	21.902	0.518	1.00 81.90	C
ATOM	2250	OH	TYR	290	28.622	22.735	0.489	1.00 81.90	O
ATOM	2251	C	TYR	290	33.555	19.240	-1.855	1.00 81.90	C
ATOM	2252	O	TYR	290	32.680	19.428	-2.700	1.00 81.90	O
ATOM	2253	N	SER	291	34.809	19.696	-2.024	1.00 67.59	N
ATOM	2254	CA	SER	291	35.140	20.482	-3.178	1.00 67.59	C
ATOM	2255	CB	SER	291	36.585	21.009	-3.143	1.00 67.59	C
ATOM	2256	OG	SER	291	36.856	21.773	-4.309	1.00 67.59	O
ATOM	2257	C	SER	291	35.006	19.627	-4.397	1.00 67.59	C
ATOM	2258	O	SER	291	34.491	20.070	-5.421	1.00 67.59	O
ATOM	2259	N	LEU	292	35.475	18.369	-4.314	1.00 58.30	N
ATOM	2260	CA	LEU	292	35.441	17.502	-5.453	1.00 58.30	C

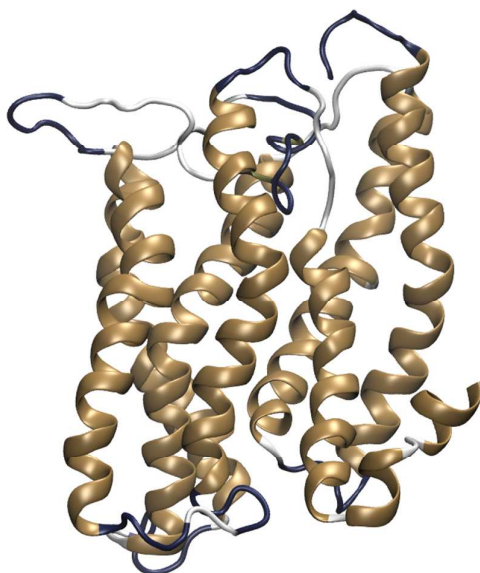
ATOM	2261	CB	LEU	292	36.175	16.167	-5.248	1.00	58.30	C
ATOM	2262	CG	LEU	292	37.698	16.314	-5.109	1.00	58.30	C
ATOM	2263	CD1	LEU	292	38.382	14.940	-5.137	1.00	58.30	C
ATOM	2264	CD2	LEU	292	38.267	17.286	-6.158	1.00	58.30	C
ATOM	2265	C	LEU	292	34.038	17.166	-5.841	1.00	58.30	C
ATOM	2266	O	LEU	292	33.717	17.161	-7.029	1.00	58.30	O
ATOM	2267	N	ARG	293	33.148	16.866	-4.873	1.00223.04		N
ATOM	2268	CA	ARG	293	31.855	16.463	-5.344	1.00223.04		C
ATOM	2269	CB	ARG	293	31.342	15.166	-4.697	1.00223.04		C
ATOM	2270	CG	ARG	293	30.195	14.534	-5.488	1.00223.04		C
ATOM	2271	CD	ARG	293	30.660	13.917	-6.810	1.00223.04		C
ATOM	2272	NE	ARG	293	29.450	13.502	-7.574	1.00223.04		N
ATOM	2273	CZ	ARG	293	28.849	14.390	-8.419	1.00223.04		C
ATOM	2274	NH1	ARG	293	29.361	15.647	-8.562	1.00223.04		N
ATOM	2275	NH2	ARG	293	27.742	14.020	-9.127	1.00223.04		N
ATOM	2276	C	ARG	293	30.843	17.527	-5.062	1.00223.04		C
ATOM	2277	O	ARG	293	29.746	17.240	-4.585	1.00223.04		O
ATOM	2278	N	ASN	294	31.171	18.792	-5.373	1.00	86.09	N
ATOM	2279	CA	ASN	294	30.186	19.818	-5.203	1.00	86.09	C
ATOM	2280	CB	ASN	294	30.267	20.493	-3.823	1.00	86.09	C
ATOM	2281	CG	ASN	294	28.928	21.152	-3.522	1.00	86.09	C
ATOM	2282	OD1	ASN	294	28.603	22.212	-4.053	1.00	86.09	O
ATOM	2283	ND2	ASN	294	28.120	20.498	-2.646	1.00	86.09	N
ATOM	2284	C	ASN	294	30.468	20.839	-6.257	1.00	86.09	C
ATOM	2285	O	ASN	294	31.405	21.629	-6.144	1.00	86.09	O
ATOM	2286	N	GLN	295	29.646	20.856	-7.321	1.00	84.89	N
ATOM	2287	CA	GLN	295	29.905	21.764	-8.400	1.00	84.89	C
ATOM	2288	CB	GLN	295	28.921	21.598	-9.568	1.00	84.89	C
ATOM	2289	CG	GLN	295	29.187	22.559	-10.729	1.00	84.89	C
ATOM	2290	CD	GLN	295	28.149	22.298	-11.811	1.00	84.89	C
ATOM	2291	OE1	GLN	295	27.899	21.155	-12.188	1.00	84.89	O
ATOM	2292	NE2	GLN	295	27.515	23.391	-12.317	1.00	84.89	N
ATOM	2293	C	GLN	295	29.767	23.169	-7.915	1.00	84.89	C
ATOM	2294	O	GLN	295	30.594	24.020	-8.234	1.00	84.89	O
ATOM	2295	N	GLU	296	28.711	23.443	-7.124	1.00	55.54	N
ATOM	2296	CA	GLU	296	28.449	24.784	-6.683	1.00	55.54	C
ATOM	2297	CB	GLU	296	27.093	24.931	-5.974	1.00	55.54	C
ATOM	2298	CG	GLU	296	26.828	26.361	-5.502	1.00	55.54	C
ATOM	2299	CD	GLU	296	25.469	26.395	-4.821	1.00	55.54	C
ATOM	2300	OE1	GLU	296	24.695	25.416	-4.989	1.00	55.54	O
ATOM	2301	OE2	GLU	296	25.192	27.399	-4.113	1.00	55.54	O
ATOM	2302	C	GLU	296	29.493	25.275	-5.722	1.00	55.54	C
ATOM	2303	O	GLU	296	29.920	26.426	-5.808	1.00	55.54	O
ATOM	2304	N	ILE	297	29.909	24.427	-4.760	1.00120.45		N
ATOM	2305	CA	ILE	297	30.889	24.828	-3.784	1.00120.45		C
ATOM	2306	CB	ILE	297	31.136	23.769	-2.758	1.00120.45		C
ATOM	2307	CG2	ILE	297	32.382	24.167	-1.944	1.00120.45		C
ATOM	2308	CG1	ILE	297	29.880	23.584	-1.905	1.00120.45		C
ATOM	2309	CD1	ILE	297	29.557	24.833	-1.089	1.00120.45		C
ATOM	2310	C	ILE	297	32.165	25.061	-4.489	1.00120.45		C
ATOM	2311	O	ILE	297	32.846	26.062	-4.278	1.00120.45		O
ATOM	2312	N	LYS	298	32.521	24.130	-5.385	1.00256.30		N
ATOM	2313	CA	LYS	298	33.671	24.408	-6.166	1.00256.30		C
ATOM	2314	CB	LYS	298	34.141	23.248	-7.060	1.00256.30		C
ATOM	2315	CG	LYS	298	33.162	22.870	-8.174	1.00256.30		C
ATOM	2316	CD	LYS	298	33.790	21.965	-9.235	1.00256.30		C
ATOM	2317	CE	LYS	298	32.829	21.571	-10.358	1.00256.30		C
ATOM	2318	NZ	LYS	298	33.525	20.702	-11.334	1.00256.30		N
ATOM	2319	C	LYS	298	33.168	25.507	-7.033	1.00256.30		C
ATOM	2320	O	LYS	298	31.986	25.791	-7.094	1.00256.30		O
ATOM	2321	N	SER	299	34.029	26.248	-7.693	1.00256.03		N
ATOM	2322	CA	SER	299	33.522	27.311	-8.508	1.00256.03		C
ATOM	2323	CB	SER	299	32.441	26.902	-9.533	1.00256.03		C
ATOM	2324	OG	SER	299	32.026	28.038	-10.276	1.00256.03		O
ATOM	2325	C	SER	299	33.022	28.464	-7.668	1.00256.03		C
ATOM	2326	O	SER	299	33.134	29.607	-8.096	1.00256.03		O
ATOM	2327	N	SER	300	32.469	28.247	-6.453	1.00125.73		N
ATOM	2328	CA	SER	300	32.181	29.374	-5.620	1.00125.73		C
ATOM	2329	CB	SER	300	31.282	29.070	-4.408	1.00125.73		C
ATOM	2330	OG	SER	300	32.006	28.342	-3.428	1.00125.73		O
ATOM	2331	C	SER	300	33.529	29.707	-5.116	1.00125.73		C
ATOM	2332	O	SER	300	33.881	30.862	-4.881	1.00125.73		O
ATOM	2333	N	LEU	301	34.311	28.625	-4.927	1.00156.57		N
ATOM	2334	CA	LEU	301	35.670	28.723	-4.499	1.00156.57		C
ATOM	2335	CB	LEU	301	36.307	27.346	-4.244	1.00156.57		C
ATOM	2336	CG	LEU	301	35.562	26.482	-3.207	1.00156.57		C
ATOM	2337	CD1	LEU	301	36.274	25.136	-2.992	1.00156.57		C

ATOM	2338	CD2	LEU	301	35.320	27.243	-1.897	1.00156.57	C
ATOM	2339	C	LEU	301	36.430	29.340	-5.623	1.00156.57	C
ATOM	2340	O	LEU	301	37.228	30.253	-5.421	1.00156.57	O
ATOM	2341	N	ARG	302	36.181	28.856	-6.857	1.00120.40	N
ATOM	2342	CA	ARG	302	36.919	29.385	-7.971	1.00120.40	C
ATOM	2343	CB	ARG	302	36.618	28.668	-9.299	1.00120.40	C
ATOM	2344	CG	ARG	302	37.125	27.225	-9.335	1.00120.40	C
ATOM	2345	CD	ARG	302	37.075	26.593	-10.727	1.00120.40	C
ATOM	2346	NE	ARG	302	38.080	27.301	-11.571	1.00120.40	N
ATOM	2347	CZ	ARG	302	39.388	26.912	-11.547	1.00120.40	C
ATOM	2348	NH1	ARG	302	39.777	25.872	-10.753	1.00120.40	N
ATOM	2349	NH2	ARG	302	40.308	27.565	-12.316	1.00120.40	N
ATOM	2350	C	ARG	302	36.549	30.821	-8.132	1.00120.40	C
ATOM	2351	O	ARG	302	37.397	31.669	-8.412	1.00120.40	O
ATOM	2352	N	LYS	303	35.255	31.134	-7.944	1.00 73.10	N
ATOM	2353	CA	LYS	303	34.830	32.493	-8.110	1.00 73.10	C
ATOM	2354	CB	LYS	303	33.331	32.716	-7.829	1.00 73.10	C
ATOM	2355	CG	LYS	303	32.385	32.128	-8.874	1.00 73.10	C
ATOM	2356	CD	LYS	303	30.916	32.146	-8.447	1.00 73.10	C
ATOM	2357	CE	LYS	303	30.579	31.136	-7.350	1.00 73.10	C
ATOM	2358	NZ	LYS	303	29.145	31.220	-6.996	1.00 73.10	N
ATOM	2359	C	LYS	303	35.556	33.332	-7.115	1.00 73.10	C
ATOM	2360	O	LYS	303	35.976	34.439	-7.437	1.00 73.10	O
ATOM	2361	N	LEU	304	35.683	32.854	-5.862	1.00156.60	N
ATOM	2362	CA	LEU	304	36.362	33.645	-4.874	1.00156.60	C
ATOM	2363	CB	LEU	304	36.197	33.066	-3.451	1.00156.60	C
ATOM	2364	CG	LEU	304	36.817	33.907	-2.311	1.00156.60	C
ATOM	2365	CD1	LEU	304	38.354	33.860	-2.301	1.00156.60	C
ATOM	2366	CD2	LEU	304	36.265	35.342	-2.331	1.00156.60	C
ATOM	2367	C	LEU	304	37.825	33.723	-5.189	1.00156.60	C
ATOM	2368	O	LEU	304	38.410	34.807	-5.228	1.00156.60	O
ATOM	2369	N	ILE	305	38.445	32.564	-5.484	1.00113.13	N
ATOM	2370	CA	ILE	305	39.870	32.515	-5.643	1.00113.13	C
ATOM	2371	CB	ILE	305	40.371	31.141	-5.977	1.00113.13	C
ATOM	2372	CG2	ILE	305	41.873	31.249	-6.290	1.00113.13	C
ATOM	2373	CG1	ILE	305	40.050	30.161	-4.835	1.00113.13	C
ATOM	2374	CD1	ILE	305	40.698	30.543	-3.506	1.00113.13	C
ATOM	2375	C	ILE	305	40.246	33.409	-6.762	1.00113.13	C
ATOM	2376	O	ILE	305	41.149	34.234	-6.632	1.00113.13	O
ATOM	2377	N	TRP	306	39.548	33.304	-7.902	1.00254.04	N
ATOM	2378	CA	TRP	306	39.946	34.228	-8.908	1.00254.04	C
ATOM	2379	CB	TRP	306	39.505	33.848	-10.330	1.00254.04	C
ATOM	2380	CG	TRP	306	39.952	34.836	-11.379	1.00254.04	C
ATOM	2381	CD2	TRP	306	41.301	34.939	-11.862	1.00254.04	C
ATOM	2382	CD1	TRP	306	39.238	35.799	-12.024	1.00254.04	C
ATOM	2383	NE1	TRP	306	40.051	36.497	-12.884	1.00254.04	N
ATOM	2384	CE2	TRP	306	41.326	35.979	-12.791	1.00254.04	C
ATOM	2385	CE3	TRP	306	42.425	34.231	-11.550	1.00254.04	C
ATOM	2386	CZ2	TRP	306	42.483	36.325	-13.427	1.00254.04	C
ATOM	2387	CZ3	TRP	306	43.589	34.580	-12.195	1.00254.04	C
ATOM	2388	CH2	TRP	306	43.618	35.608	-13.115	1.00254.04	C
ATOM	2389	C	TRP	306	39.292	35.493	-8.494	1.00254.04	C
ATOM	2390	O	TRP	306	38.103	35.517	-8.217	1.00254.04	O
ATOM	2391	N	VAL	307	40.052	36.590	-8.440	1.00187.02	N
ATOM	2392	CA	VAL	307	39.535	37.827	-7.927	1.00187.02	C
ATOM	2393	CB	VAL	307	40.507	38.962	-8.063	1.00187.02	C
ATOM	2394	CG1	VAL	307	40.775	39.207	-9.558	1.00187.02	C
ATOM	2395	CG2	VAL	307	39.931	40.186	-7.330	1.00187.02	C
ATOM	2396	C	VAL	307	38.313	38.177	-8.707	1.00187.02	C
ATOM	2397	O	VAL	307	37.336	38.675	-8.150	1.00187.02	O
ATOM	2398	N	ARG	308	38.324	37.875	-10.016	1.00353.45	N
ATOM	2399	CA	ARG	308	37.175	38.153	-10.820	1.00353.45	C
ATOM	2400	CB	ARG	308	37.441	38.113	-12.335	1.00353.45	C
ATOM	2401	CG	ARG	308	36.187	38.308	-13.192	1.00353.45	C
ATOM	2402	CD	ARG	308	35.614	39.726	-13.154	1.00353.45	C
ATOM	2403	NE	ARG	308	36.509	40.590	-13.974	1.00353.45	N
ATOM	2404	CZ	ARG	308	35.976	41.529	-14.808	1.00353.45	C
ATOM	2405	NH1	ARG	308	34.621	41.664	-14.909	1.00353.45	N
ATOM	2406	NH2	ARG	308	36.798	42.331	-15.546	1.00353.45	N
ATOM	2407	C	ARG	308	36.145	37.117	-10.514	1.00353.45	C
ATOM	2408	O	ARG	308	36.453	36.008	-10.085	1.00353.45	O
ATOM	2409	N	LYS	309	34.874	37.505	-10.692	1.00269.39	N
ATOM	2410	CA	LYS	309	33.721	36.703	-10.414	1.00269.39	C
ATOM	2411	CB	LYS	309	32.417	37.514	-10.572	1.00269.39	C
ATOM	2412	CG	LYS	309	31.104	36.764	-10.299	1.00269.39	C
ATOM	2413	CD	LYS	309	30.713	35.712	-11.339	1.00269.39	C
ATOM	2414	CE	LYS	309	29.323	35.114	-11.122	1.00269.39	C

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ATOM	2415	NZ	LYS	309	29.263	34.427	-9.813	1.00269.39	N
ATOM	2416	C	LYS	309	33.643	35.520	-11.321	1.00269.39	C
ATOM	2417	O	LYS	309	33.286	34.441	-10.855	1.00269.39	O
ATOM	2418	N	ILE	310	33.977	35.679	-12.623	1.00279.20	N
ATOM	2419	CA	ILE	310	33.762	34.623	-13.580	1.00279.20	C
ATOM	2420	CB	ILE	310	34.299	34.929	-14.951	1.00279.20	C
ATOM	2421	CG2	ILE	310	35.827	35.081	-14.863	1.00279.20	C
ATOM	2422	CG1	ILE	310	33.825	33.867	-15.958	1.00279.20	C
ATOM	2423	CD1	ILE	310	34.068	34.255	-17.416	1.00279.20	C
ATOM	2424	C	ILE	310	34.375	33.348	-13.098	1.00279.20	C
ATOM	2425	O	ILE	310	35.571	33.265	-12.825	1.00279.20	O
ATOM	2426	N	HIS	311	33.523	32.311	-12.975	1.00243.59	N
ATOM	2427	CA	HIS	311	33.953	31.042	-12.474	1.00243.59	C
ATOM	2428	ND1	HIS	311	30.766	29.757	-11.937	1.00243.59	N
ATOM	2429	CG	HIS	311	31.619	30.758	-11.530	1.00243.59	C
ATOM	2430	CB	HIS	311	33.093	30.580	-11.283	1.00243.59	C
ATOM	2431	NE2	HIS	311	29.536	31.600	-11.757	1.00243.59	N
ATOM	2432	CD2	HIS	311	30.850	31.878	-11.426	1.00243.59	C
ATOM	2433	CE1	HIS	311	29.534	30.314	-12.057	1.00243.59	C
ATOM	2434	C	HIS	311	33.784	30.039	-13.562	1.00243.59	C
ATOM	2435	O	HIS	311	32.799	29.304	-13.589	1.00243.59	O
ATOM	2436	N	SER	312	34.765	29.952	-14.479	1.00105.51	N
ATOM	2437	CA	SER	312	34.613	29.005	-15.539	1.00105.51	C
ATOM	2438	CB	SER	312	35.109	29.517	-16.902	1.00105.51	C
ATOM	2439	OG	SER	312	36.511	29.735	-16.862	1.00105.51	O
ATOM	2440	C	SER	312	35.433	27.812	-15.184	1.00105.51	C
ATOM	2441	O	SER	312	36.645	27.893	-14.989	1.00105.51	O
ATOM	2442	N	PRO	313	34.769	26.697	-15.092	1.00142.88	N
ATOM	2443	CA	PRO	313	35.482	25.497	-14.763	1.00142.88	C
ATOM	2444	CD	PRO	313	33.438	26.706	-14.504	1.00142.88	C
ATOM	2445	CB	PRO	313	34.449	24.526	-14.199	1.00142.88	C
ATOM	2446	CG	PRO	313	33.364	25.450	-13.622	1.00142.88	C
ATOM	2447	C	PRO	313	36.174	24.992	-15.982	1.00142.88	C
ATOM	2448	O	PRO	313	35.772	25.406	-17.102	1.00142.88	O
ATOM	2449	OXT	PRO	313	37.114	24.167	-15.831	1.00142.88	O
TER	2450		PRO	313					
END									

PDB and structure of OR1G1 built by homology modeling using CXC1 chemokine receptor (PDB ID 2LNL) as template.



ATOM	1	N	MET	1	39.031	-43.576	19.283	1.00	72.38	N
ATOM	2	CA	MET	1	39.701	-43.979	18.027	1.00	72.38	C
ATOM	3	CB	MET	1	38.725	-43.858	16.843	1.00	72.38	C
ATOM	4	CG	MET	1	38.135	-42.459	16.653	1.00	72.38	C
ATOM	5	SD	MET	1	36.898	-42.339	15.324	1.00	72.38	S
ATOM	6	CE	MET	1	35.656	-43.384	16.144	1.00	72.38	C
ATOM	7	C	MET	1	40.910	-43.144	17.784	1.00	72.38	C
ATOM	8	O	MET	1	41.595	-42.745	18.725	1.00	72.38	O
ATOM	9	N	GLU	2	41.209	-42.857	16.504	1.00191.24		N
ATOM	10	CA	GLU	2	42.387	-42.098	16.216	1.00191.24		C
ATOM	11	CB	GLU	2	42.698	-42.009	14.710	1.00191.24		C
ATOM	12	CG	GLU	2	43.088	-43.338	14.055	1.00191.24		C
ATOM	13	CD	GLU	2	44.601	-43.493	14.148	1.00191.24		C
ATOM	14	OE1	GLU	2	45.234	-42.670	14.862	1.00191.24		O
ATOM	15	OE2	GLU	2	45.145	-44.429	13.503	1.00191.24		O
ATOM	16	C	GLU	2	42.151	-40.704	16.694	1.00191.24		C
ATOM	17	O	GLU	2	41.371	-39.955	16.108	1.00191.24		O
ATOM	18	N	GLY	3	42.817	-40.333	17.803	1.00	68.40	N
ATOM	19	CA	GLY	3	42.711	-38.999	18.308	1.00	68.40	C
ATOM	20	C	GLY	3	41.371	-38.854	18.943	1.00	68.40	C
ATOM	21	O	GLY	3	40.490	-39.695	18.763	1.00	68.40	O
ATOM	22	N	LYS	4	41.191	-37.758	19.706	1.00	78.89	N
ATOM	23	CA	LYS	4	39.931	-37.484	20.327	1.00	78.89	C
ATOM	24	CB	LYS	4	39.940	-36.230	21.220	1.00	78.89	C
ATOM	25	CG	LYS	4	40.856	-36.334	22.441	1.00	78.89	C
ATOM	26	CD	LYS	4	41.014	-35.009	23.191	1.00	78.89	C
ATOM	27	CE	LYS	4	41.407	-33.836	22.292	1.00	78.89	C
ATOM	28	NZ	LYS	4	42.750	-34.066	21.717	1.00	78.89	N
ATOM	29	C	LYS	4	38.959	-37.221	19.226	1.00	78.89	C
ATOM	30	O	LYS	4	37.809	-37.655	19.279	1.00	78.89	O
ATOM	31	N	ASN	5	39.421	-36.516	18.176	1.00230.31		N
ATOM	32	CA	ASN	5	38.563	-36.170	17.081	1.00230.31		C
ATOM	33	CB	ASN	5	38.099	-37.381	16.253	1.00230.31		C
ATOM	34	CG	ASN	5	37.493	-36.869	14.949	1.00230.31		C
ATOM	35	OD1	ASN	5	36.793	-35.858	14.925	1.00230.31		O
ATOM	36	ND2	ASN	5	37.777	-37.581	13.825	1.00230.31		N
ATOM	37	C	ASN	5	37.365	-35.492	17.649	1.00230.31		C
ATOM	38	O	ASN	5	36.227	-35.889	17.398	1.00230.31		O
ATOM	39	N	LEU	6	37.607	-34.445	18.457	1.00298.82		N
ATOM	40	CA	LEU	6	36.535	-33.722	19.068	1.00298.82		C
ATOM	41	CB	LEU	6	37.040	-32.682	20.091	1.00298.82		C
ATOM	42	CG	LEU	6	35.951	-31.837	20.787	1.00298.82		C

ATOM	43	CD1	LEU	6	35.350	-30.779	19.849	1.00298.82	C
ATOM	44	CD2	LEU	6	34.882	-32.731	21.433	1.00298.82	C
ATOM	45	C	LEU	6	35.783	-33.017	17.989	1.00298.82	C
ATOM	46	O	LEU	6	36.362	-32.320	17.159	1.00298.82	O
ATOM	47	N	THR	7	34.449	-33.208	17.976	1.00280.96	N
ATOM	48	CA	THR	7	33.605	-32.538	17.033	1.00280.96	C
ATOM	49	CB	THR	7	33.142	-33.406	15.899	1.00280.96	C
ATOM	50	OG1	THR	7	32.482	-32.617	14.920	1.00280.96	O
ATOM	51	CG2	THR	7	32.194	-34.486	16.449	1.00280.96	C
ATOM	52	C	THR	7	32.395	-32.108	17.795	1.00280.96	C
ATOM	53	O	THR	7	32.104	-32.639	18.865	1.00280.96	O
ATOM	54	N	SER	8	31.652	-31.121	17.263	1.00151.14	N
ATOM	55	CA	SER	8	30.506	-30.642	17.975	1.00151.14	C
ATOM	56	CB	SER	8	30.015	-29.259	17.503	1.00151.14	C
ATOM	57	OG	SER	8	28.908	-28.828	18.282	1.00151.14	O
ATOM	58	C	SER	8	29.406	-31.634	17.778	1.00151.14	C
ATOM	59	O	SER	8	29.549	-32.609	17.042	1.00151.14	O
ATOM	60	N	ILE	9	28.274	-31.405	18.469	1.00122.07	N
ATOM	61	CA	ILE	9	27.145	-32.284	18.410	1.00122.07	C
ATOM	62	CB	ILE	9	26.000	-31.816	19.258	1.00122.07	C
ATOM	63	CG2	ILE	9	26.470	-31.769	20.720	1.00122.07	C
ATOM	64	CG1	ILE	9	25.475	-30.468	18.737	1.00122.07	C
ATOM	65	CD1	ILE	9	24.157	-30.034	19.373	1.00122.07	C
ATOM	66	C	ILE	9	26.656	-32.318	17.001	1.00122.07	C
ATOM	67	O	ILE	9	26.537	-31.284	16.345	1.00122.07	O
ATOM	68	N	SER	10	26.404	-33.538	16.487	1.00115.36	N
ATOM	69	CA	SER	10	25.891	-33.696	15.160	1.00115.36	C
ATOM	70	CB	SER	10	26.420	-34.939	14.423	1.00115.36	C
ATOM	71	OG	SER	10	25.980	-36.121	15.073	1.00115.36	O
ATOM	72	C	SER	10	24.409	-33.840	15.255	1.00115.36	C
ATOM	73	O	SER	10	23.832	-33.839	16.341	1.00115.36	O
ATOM	74	N	GLU	11	23.760	-33.963	14.083	1.00190.95	N
ATOM	75	CA	GLU	11	22.341	-34.130	14.014	1.00190.95	C
ATOM	76	CB	GLU	11	21.798	-34.158	12.575	1.00190.95	C
ATOM	77	CG	GLU	11	21.941	-32.832	11.831	1.00190.95	C
ATOM	78	CD	GLU	11	21.680	-33.087	10.351	1.00190.95	C
ATOM	79	OE1	GLU	11	21.377	-34.256	9.987	1.00190.95	O
ATOM	80	OE2	GLU	11	21.788	-32.111	9.562	1.00190.95	O
ATOM	81	C	GLU	11	22.064	-35.478	14.574	1.00190.95	C
ATOM	82	O	GLU	11	22.948	-36.332	14.624	1.00190.95	O
ATOM	83	N	CYS	12	20.828	-35.712	15.042	1.00 97.78	N
ATOM	84	CA	CYS	12	20.580	-37.029	15.529	1.00 97.78	C
ATOM	85	CB	CYS	12	19.182	-37.227	16.137	1.00 97.78	C
ATOM	86	SG	CYS	12	17.853	-37.038	14.915	1.00 97.78	S
ATOM	87	C	CYS	12	20.725	-37.914	14.337	1.00 97.78	C
ATOM	88	O	CYS	12	20.569	-37.467	13.201	1.00 97.78	O
ATOM	89	N	PHE	13	21.049	-39.196	14.569	1.00194.30	N
ATOM	90	CA	PHE	13	21.328	-40.097	13.492	1.00194.30	C
ATOM	91	CB	PHE	13	21.587	-41.540	13.960	1.00194.30	C
ATOM	92	CG	PHE	13	20.305	-42.037	14.535	1.00194.30	C
ATOM	93	CD1	PHE	13	20.002	-41.834	15.862	1.00194.30	C
ATOM	94	CD2	PHE	13	19.399	-42.699	13.738	1.00194.30	C
ATOM	95	CE1	PHE	13	18.813	-42.288	16.383	1.00194.30	C
ATOM	96	CE2	PHE	13	18.210	-43.154	14.254	1.00194.30	C
ATOM	97	CZ	PHE	13	17.914	-42.949	15.579	1.00194.30	C
ATOM	98	C	PHE	13	20.160	-40.106	12.571	1.00194.30	C
ATOM	99	O	PHE	13	19.009	-39.976	12.989	1.00194.30	O
ATOM	100	N	LEU	14	20.440	-40.245	11.265	1.00300.81	N
ATOM	101	CA	LEU	14	19.371	-40.237	10.322	1.00300.81	C
ATOM	102	CB	LEU	14	19.834	-40.413	8.867	1.00300.81	C
ATOM	103	CG	LEU	14	20.871	-39.382	8.390	1.00300.81	C
ATOM	104	CD1	LEU	14	21.225	-39.613	6.916	1.00300.81	C
ATOM	105	CD2	LEU	14	20.440	-37.939	8.680	1.00300.81	C
ATOM	106	C	LEU	14	18.532	-41.421	10.634	1.00300.81	C
ATOM	107	O	LEU	14	19.025	-42.544	10.748	1.00300.81	O
ATOM	108	N	LEU	15	17.221	-41.199	10.787	1.00 83.37	N
ATOM	109	CA	LEU	15	16.397	-42.327	11.056	1.00 83.37	C
ATOM	110	CB	LEU	15	14.913	-41.969	11.215	1.00 83.37	C
ATOM	111	CG	LEU	15	14.621	-41.079	12.434	1.00 83.37	C
ATOM	112	CD1	LEU	15	13.117	-40.779	12.548	1.00 83.37	C
ATOM	113	CD2	LEU	15	15.212	-41.685	13.717	1.00 83.37	C
ATOM	114	C	LEU	15	16.506	-43.185	9.851	1.00 83.37	C
ATOM	115	O	LEU	15	16.698	-44.396	9.948	1.00 83.37	O
ATOM	116	N	GLY	16	16.437	-42.550	8.667	1.00 87.39	N
ATOM	117	CA	GLY	16	16.445	-43.319	7.467	1.00 87.39	C
ATOM	118	C	GLY	16	15.158	-44.047	7.529	1.00 87.39	C
ATOM	119	O	GLY	16	14.152	-43.502	7.983	1.00 87.39	O

ATOM	120	N	PHE	17	15.144	-45.305	7.075	1.00184.80	N
ATOM	121	CA	PHE	17	13.925	-46.018	7.252	1.00184.80	C
ATOM	122	CB	PHE	17	13.892	-47.405	6.589	1.00184.80	C
ATOM	123	CG	PHE	17	12.469	-47.841	6.653	1.00184.80	C
ATOM	124	CD1	PHE	17	11.583	-47.389	5.703	1.00184.80	C
ATOM	125	CD2	PHE	17	12.013	-48.682	7.643	1.00184.80	C
ATOM	126	CE1	PHE	17	10.261	-47.763	5.734	1.00184.80	C
ATOM	127	CE2	PHE	17	10.690	-49.061	7.680	1.00184.80	C
ATOM	128	CZ	PHE	17	9.814	-48.602	6.725	1.00184.80	C
ATOM	129	C	PHE	17	13.884	-46.218	8.723	1.00184.80	C
ATOM	130	O	PHE	17	14.919	-46.110	9.376	1.00184.80	O
ATOM	131	N	SER	18	12.703	-46.499	9.299	1.00120.49	N
ATOM	132	CA	SER	18	12.652	-46.626	10.726	1.00120.49	C
ATOM	133	CB	SER	18	11.259	-46.955	11.292	1.00120.49	C
ATOM	134	OG	SER	18	10.385	-45.851	11.112	1.00120.49	O
ATOM	135	C	SER	18	13.583	-47.716	11.145	1.00120.49	C
ATOM	136	O	SER	18	14.185	-48.411	10.329	1.00120.49	O
ATOM	137	N	GLU	19	13.732	-47.869	12.468	1.00118.71	N
ATOM	138	CA	GLU	19	14.633	-48.833	13.008	1.00118.71	C
ATOM	139	CB	GLU	19	14.618	-48.866	14.545	1.00118.71	C
ATOM	140	CG	GLU	19	15.149	-47.575	15.173	1.00118.71	C
ATOM	141	CD	GLU	19	16.634	-47.487	14.855	1.00118.71	C
ATOM	142	OE1	GLU	19	17.177	-48.482	14.304	1.00118.71	O
ATOM	143	OE2	GLU	19	17.244	-46.427	15.156	1.00118.71	O
ATOM	144	C	GLU	19	14.190	-50.159	12.502	1.00118.71	C
ATOM	145	O	GLU	19	15.020	-51.043	12.293	1.00118.71	O
ATOM	146	N	GLN	20	12.866	-50.319	12.290	1.00250.50	N
ATOM	147	CA	GLN	20	12.320	-51.559	11.815	1.00250.50	C
ATOM	148	CB	GLN	20	10.846	-51.522	11.375	1.00250.50	C
ATOM	149	CG	GLN	20	9.824	-51.448	12.510	1.00250.50	C
ATOM	150	CD	GLN	20	8.454	-51.630	11.871	1.00250.50	C
ATOM	151	OE1	GLN	20	8.339	-51.741	10.651	1.00250.50	O
ATOM	152	NE2	GLN	20	7.383	-51.667	12.707	1.00250.50	N
ATOM	153	C	GLN	20	13.086	-52.013	10.630	1.00250.50	C
ATOM	154	O	GLN	20	13.680	-51.202	9.918	1.00250.50	O
ATOM	155	N	LEU	21	13.034	-53.349	10.429	1.00272.35	N
ATOM	156	CA	LEU	21	13.740	-54.122	9.452	1.00272.35	C
ATOM	157	CB	LEU	21	12.913	-54.428	8.193	1.00272.35	C
ATOM	158	CG	LEU	21	11.717	-55.357	8.472	1.00272.35	C
ATOM	159	CD1	LEU	21	12.188	-56.756	8.902	1.00272.35	C
ATOM	160	CD2	LEU	21	10.741	-54.725	9.476	1.00272.35	C
ATOM	161	C	LEU	21	14.988	-53.414	9.070	1.00272.35	C
ATOM	162	O	LEU	21	15.004	-52.542	8.202	1.00272.35	O
ATOM	163	N	GLU	22	16.079	-53.800	9.746	1.00157.61	N
ATOM	164	CA	GLU	22	17.359	-53.227	9.501	1.00157.61	C
ATOM	165	CB	GLU	22	18.446	-53.830	10.410	1.00157.61	C
ATOM	166	CG	GLU	22	19.867	-53.376	10.077	1.00157.61	C
ATOM	167	CD	GLU	22	20.517	-54.466	9.236	1.00157.61	C
ATOM	168	OE1	GLU	22	20.299	-55.664	9.558	1.00157.61	O
ATOM	169	OE2	GLU	22	21.257	-54.119	8.276	1.00157.61	O
ATOM	170	C	GLU	22	17.650	-53.564	8.089	1.00157.61	C
ATOM	171	O	GLU	22	18.245	-52.774	7.367	1.00157.61	O
ATOM	172	N	GLU	23	17.171	-54.742	7.660	1.00114.28	N
ATOM	173	CA	GLU	23	17.363	-55.238	6.333	1.00114.28	C
ATOM	174	CB	GLU	23	16.648	-56.580	6.102	1.00114.28	C
ATOM	175	CG	GLU	23	16.994	-57.238	4.766	1.00114.28	C
ATOM	176	CD	GLU	23	18.387	-57.836	4.907	1.00114.28	C
ATOM	177	OE1	GLU	23	19.206	-57.265	5.676	1.00114.28	O
ATOM	178	OE2	GLU	23	18.650	-58.873	4.242	1.00114.28	O
ATOM	179	C	GLU	23	16.764	-54.247	5.388	1.00114.28	C
ATOM	180	O	GLU	23	17.269	-54.051	4.285	1.00114.28	O
ATOM	181	N	GLN	24	15.677	-53.574	5.805	1.00 71.67	N
ATOM	182	CA	GLN	24	15.013	-52.656	4.926	1.00 71.67	C
ATOM	183	CB	GLN	24	13.778	-51.973	5.536	1.00 71.67	C
ATOM	184	CG	GLN	24	12.590	-52.922	5.680	1.00 71.67	C
ATOM	185	CD	GLN	24	11.403	-52.116	6.183	1.00 71.67	C
ATOM	186	OE1	GLN	24	10.932	-52.318	7.301	1.00 71.67	O
ATOM	187	NE2	GLN	24	10.901	-51.177	5.338	1.00 71.67	N
ATOM	188	C	GLN	24	15.957	-51.573	4.506	1.00 71.67	C
ATOM	189	O	GLN	24	15.871	-51.091	3.379	1.00 71.67	O
ATOM	190	N	LYS	25	16.872	-51.134	5.388	1.00188.15	N
ATOM	191	CA	LYS	25	17.749	-50.069	4.990	1.00188.15	C
ATOM	192	CB	LYS	25	18.700	-49.630	6.121	1.00188.15	C
ATOM	193	CG	LYS	25	19.440	-48.317	5.860	1.00188.15	C
ATOM	194	CD	LYS	25	20.333	-48.354	4.624	1.00188.15	C
ATOM	195	CE	LYS	25	21.251	-49.574	4.600	1.00188.15	C
ATOM	196	NZ	LYS	25	21.822	-49.735	3.248	1.00188.15	N

ATOM	197	C	LYS	25	18.536	-50.534	3.804	1.00188.15	C
ATOM	198	O	LYS	25	18.664	-49.804	2.821	1.00188.15	O
ATOM	199	N	PRO	26	19.062	-51.724	3.838	1.00 93.06	N
ATOM	200	CA	PRO	26	19.742	-52.203	2.678	1.00 93.06	C
ATOM	201	CD	PRO	26	19.686	-52.260	5.029	1.00 93.06	C
ATOM	202	CB	PRO	26	20.527	-53.445	3.110	1.00 93.06	C
ATOM	203	CG	PRO	26	20.158	-53.648	4.590	1.00 93.06	C
ATOM	204	C	PRO	26	18.774	-52.438	1.574	1.00 93.06	C
ATOM	205	O	PRO	26	19.203	-52.559	0.432	1.00 93.06	O
ATOM	206	N	LEU	27	17.468	-52.523	1.879	1.00 80.21	N
ATOM	207	CA	LEU	27	16.523	-52.754	0.829	1.00 80.21	C
ATOM	208	CB	LEU	27	15.072	-52.854	1.342	1.00 80.21	C
ATOM	209	CG	LEU	27	14.028	-53.123	0.240	1.00 80.21	C
ATOM	210	CD1	LEU	27	14.279	-54.480	-0.438	1.00 80.21	C
ATOM	211	CD2	LEU	27	12.593	-52.997	0.780	1.00 80.21	C
ATOM	212	C	LEU	27	16.613	-51.580	-0.095	1.00 80.21	C
ATOM	213	O	LEU	27	16.636	-51.734	-1.315	1.00 80.21	O
ATOM	214	N	PHE	28	16.706	-50.363	0.471	1.00103.21	N
ATOM	215	CA	PHE	28	16.773	-49.179	-0.340	1.00103.21	C
ATOM	216	CB	PHE	28	16.975	-47.894	0.485	1.00103.21	C
ATOM	217	CG	PHE	28	15.898	-47.737	1.504	1.00103.21	C
ATOM	218	CD1	PHE	28	15.960	-48.443	2.682	1.00103.21	C
ATOM	219	CD2	PHE	28	14.845	-46.877	1.308	1.00103.21	C
ATOM	220	CE1	PHE	28	14.988	-48.314	3.646	1.00103.21	C
ATOM	221	CE2	PHE	28	13.872	-46.743	2.270	1.00103.21	C
ATOM	222	CZ	PHE	28	13.935	-47.459	3.440	1.00103.21	C
ATOM	223	C	PHE	28	18.023	-49.276	-1.148	1.00103.21	C
ATOM	224	O	PHE	28	18.026	-49.056	-2.360	1.00103.21	O
ATOM	225	N	GLY	29	19.125	-49.637	-0.468	1.00 27.27	N
ATOM	226	CA	GLY	29	20.405	-49.662	-1.103	1.00 27.27	C
ATOM	227	C	GLY	29	20.360	-50.632	-2.229	1.00 27.27	C
ATOM	228	O	GLY	29	20.883	-50.363	-3.309	1.00 27.27	O
ATOM	229	N	SER	30	19.715	-51.788	-2.013	1.00 31.73	N
ATOM	230	CA	SER	30	19.698	-52.779	-3.041	1.00 31.73	C
ATOM	231	CB	SER	30	18.933	-54.056	-2.656	1.00 31.73	C
ATOM	232	OG	SER	30	17.542	-53.792	-2.571	1.00 31.73	O
ATOM	233	C	SER	30	19.008	-52.180	-4.217	1.00 31.73	C
ATOM	234	O	SER	30	19.381	-52.430	-5.360	1.00 31.73	O
ATOM	235	N	PHE	31	17.979	-51.359	-3.958	1.00 50.07	N
ATOM	236	CA	PHE	31	17.240	-50.749	-5.018	1.00 50.07	C
ATOM	237	CB	PHE	31	16.042	-49.946	-4.481	1.00 50.07	C
ATOM	238	CG	PHE	31	15.117	-49.665	-5.612	1.00 50.07	C
ATOM	239	CD1	PHE	31	14.121	-50.563	-5.920	1.00 50.07	C
ATOM	240	CD2	PHE	31	15.244	-48.522	-6.365	1.00 50.07	C
ATOM	241	CE1	PHE	31	13.259	-50.323	-6.962	1.00 50.07	C
ATOM	242	CE2	PHE	31	14.383	-48.276	-7.408	1.00 50.07	C
ATOM	243	CZ	PHE	31	13.388	-49.176	-7.708	1.00 50.07	C
ATOM	244	C	PHE	31	18.168	-49.827	-5.744	1.00 50.07	C
ATOM	245	O	PHE	31	18.208	-49.814	-6.973	1.00 50.07	O
ATOM	246	N	LEU	32	18.974	-49.054	-4.990	1.00 96.86	N
ATOM	247	CA	LEU	32	19.831	-48.079	-5.606	1.00 96.86	C
ATOM	248	CB	LEU	32	20.630	-47.285	-4.545	1.00 96.86	C
ATOM	249	CG	LEU	32	21.461	-46.073	-5.029	1.00 96.86	C
ATOM	250	CD1	LEU	32	22.166	-45.404	-3.840	1.00 96.86	C
ATOM	251	CD2	LEU	32	22.465	-46.429	-6.132	1.00 96.86	C
ATOM	252	C	LEU	32	20.781	-48.801	-6.516	1.00 96.86	C
ATOM	253	O	LEU	32	20.964	-48.413	-7.671	1.00 96.86	O
ATOM	254	N	PHE	33	21.407	-49.885	-6.026	1.00 45.29	N
ATOM	255	CA	PHE	33	22.330	-50.623	-6.838	1.00 45.29	C
ATOM	256	CB	PHE	33	23.135	-51.681	-6.059	1.00 45.29	C
ATOM	257	CG	PHE	33	24.224	-50.964	-5.327	1.00 45.29	C
ATOM	258	CD1	PHE	33	23.997	-50.364	-4.109	1.00 45.29	C
ATOM	259	CD2	PHE	33	25.485	-50.890	-5.874	1.00 45.29	C
ATOM	260	CE1	PHE	33	25.010	-49.706	-3.450	1.00 45.29	C
ATOM	261	CE2	PHE	33	26.503	-50.234	-5.222	1.00 45.29	C
ATOM	262	CZ	PHE	33	26.266	-49.641	-4.006	1.00 45.29	C
ATOM	263	C	PHE	33	21.589	-51.273	-7.961	1.00 45.29	C
ATOM	264	O	PHE	33	22.086	-51.335	-9.084	1.00 45.29	O
ATOM	265	N	MET	34	20.369	-51.771	-7.693	1.00 59.06	N
ATOM	266	CA	MET	34	19.624	-52.429	-8.726	1.00 59.06	C
ATOM	267	CB	MET	34	18.248	-52.923	-8.251	1.00 59.06	C
ATOM	268	CG	MET	34	17.472	-53.682	-9.327	1.00 59.06	C
ATOM	269	SD	MET	34	15.887	-54.376	-8.770	1.00 59.06	S
ATOM	270	CE	MET	34	15.475	-55.145	-10.362	1.00 59.06	C
ATOM	271	C	MET	34	19.404	-51.427	-9.811	1.00 59.06	C
ATOM	272	O	MET	34	19.526	-51.737	-10.994	1.00 59.06	O
ATOM	273	N	TYR	35	19.077	-50.184	-9.416	1.00 73.60	N

ATOM	274	CA	TYR	35	18.879	-49.105	-10.337	1.00	73.60	C
ATOM	275	CB	TYR	35	18.370	-47.804	-9.692	1.00	73.60	C
ATOM	276	CG	TYR	35	18.421	-46.819	-10.804	1.00	73.60	C
ATOM	277	CD1	TYR	35	17.537	-46.913	-11.853	1.00	73.60	C
ATOM	278	CD2	TYR	35	19.351	-45.806	-10.797	1.00	73.60	C
ATOM	279	CE1	TYR	35	17.586	-46.013	-12.890	1.00	73.60	C
ATOM	280	CE2	TYR	35	19.405	-44.902	-11.831	1.00	73.60	C
ATOM	281	CZ	TYR	35	18.524	-45.009	-12.880	1.00	73.60	C
ATOM	282	OH	TYR	35	18.579	-44.087	-13.946	1.00	73.60	O
ATOM	283	C	TYR	35	20.182	-48.793	-10.999	1.00	73.60	C
ATOM	284	O	TYR	35	20.219	-48.433	-12.174	1.00	73.60	O
ATOM	285	N	LEU	36	21.292	-48.933	-10.254	1.00160.44		N
ATOM	286	CA	LEU	36	22.590	-48.563	-10.742	1.00160.44		C
ATOM	287	CB	LEU	36	23.720	-48.865	-9.746	1.00160.44		C
ATOM	288	CG	LEU	36	23.669	-48.006	-8.476	1.00160.44		C
ATOM	289	CD1	LEU	36	24.822	-48.357	-7.522	1.00160.44		C
ATOM	290	CD2	LEU	36	23.618	-46.513	-8.841	1.00160.44		C
ATOM	291	C	LEU	36	22.917	-49.326	-11.989	1.00160.44		C
ATOM	292	O	LEU	36	23.598	-48.804	-12.870	1.00160.44		O
ATOM	293	N	VAL	37	22.475	-50.590	-12.107	1.00	93.90	N
ATOM	294	CA	VAL	37	22.854	-51.330	-13.277	1.00	93.90	C
ATOM	295	CB	VAL	37	22.307	-52.735	-13.287	1.00	93.90	C
ATOM	296	CG1	VAL	37	20.769	-52.693	-13.269	1.00	93.90	C
ATOM	297	CG2	VAL	37	22.892	-53.472	-14.505	1.00	93.90	C
ATOM	298	C	VAL	37	22.375	-50.609	-14.506	1.00	93.90	C
ATOM	299	O	VAL	37	23.144	-50.392	-15.441	1.00	93.90	O
ATOM	300	N	THR	38	21.098	-50.188	-14.529	1.00100.81		N
ATOM	301	CA	THR	38	20.568	-49.477	-15.657	1.00100.81		C
ATOM	302	CB	THR	38	19.075	-49.299	-15.604	1.00100.81		C
ATOM	303	OG1	THR	38	18.602	-48.780	-16.837	1.00100.81		O
ATOM	304	CG2	THR	38	18.715	-48.341	-14.461	1.00100.81		C
ATOM	305	C	THR	38	21.199	-48.121	-15.721	1.00100.81		C
ATOM	306	O	THR	38	21.468	-47.604	-16.805	1.00100.81		O
ATOM	307	N	VAL	39	21.490	-47.524	-14.548	1.00	99.16	N
ATOM	308	CA	VAL	39	21.969	-46.172	-14.524	1.00	99.16	C
ATOM	309	CB	VAL	39	22.255	-45.619	-13.153	1.00	99.16	C
ATOM	310	CG1	VAL	39	23.637	-46.086	-12.675	1.00	99.16	C
ATOM	311	CG2	VAL	39	22.117	-44.090	-13.222	1.00	99.16	C
ATOM	312	C	VAL	39	23.229	-46.107	-15.325	1.00	99.16	C
ATOM	313	O	VAL	39	23.495	-45.109	-15.992	1.00	99.16	O
ATOM	314	N	ALA	40	24.033	-47.184	-15.301	1.00	27.33	N
ATOM	315	CA	ALA	40	25.271	-47.179	-16.024	1.00	27.33	C
ATOM	316	CB	ALA	40	26.023	-48.518	-15.925	1.00	27.33	C
ATOM	317	C	ALA	40	24.947	-46.943	-17.465	1.00	27.33	C
ATOM	318	O	ALA	40	25.665	-46.230	-18.160	1.00	27.33	O
ATOM	319	N	GLY	41	23.839	-47.538	-17.940	1.00	25.39	N
ATOM	320	CA	GLY	41	23.407	-47.387	-19.299	1.00	25.39	C
ATOM	321	C	GLY	41	23.104	-45.942	-19.525	1.00	25.39	C
ATOM	322	O	GLY	41	23.272	-45.418	-20.625	1.00	25.39	O
ATOM	323	N	ASN	42	22.636	-45.268	-18.462	1.00	95.15	N
ATOM	324	CA	ASN	42	22.211	-43.905	-18.537	1.00	95.15	C
ATOM	325	CB	ASN	42	21.690	-43.371	-17.198	1.00	95.15	C
ATOM	326	CG	ASN	42	20.862	-42.146	-17.529	1.00	95.15	C
ATOM	327	OD1	ASN	42	21.389	-41.122	-17.957	1.00	95.15	O
ATOM	328	ND2	ASN	42	19.520	-42.257	-17.338	1.00	95.15	N
ATOM	329	C	ASN	42	23.340	-43.039	-19.000	1.00	95.15	C
ATOM	330	O	ASN	42	23.118	-42.076	-19.726	1.00	95.15	O
ATOM	331	N	LEU	43	24.590	-43.311	-18.593	1.00106.16		N
ATOM	332	CA	LEU	43	25.617	-42.444	-19.089	1.00106.16		C
ATOM	333	CB	LEU	43	27.007	-42.725	-18.475	1.00106.16		C
ATOM	334	CG	LEU	43	27.681	-44.052	-18.890	1.00106.16		C
ATOM	335	CD1	LEU	43	28.265	-43.994	-20.312	1.00106.16		C
ATOM	336	CD2	LEU	43	28.715	-44.497	-17.844	1.00106.16		C
ATOM	337	C	LEU	43	25.675	-42.619	-20.575	1.00106.16		C
ATOM	338	O	LEU	43	25.828	-41.656	-21.323	1.00106.16		O
ATOM	339	N	LEU	44	25.547	-43.872	-21.047	1.00	82.10	N
ATOM	340	CA	LEU	44	25.628	-44.134	-22.454	1.00	82.10	C
ATOM	341	CB	LEU	44	25.533	-45.632	-22.778	1.00	82.10	C
ATOM	342	CG	LEU	44	26.699	-46.459	-22.211	1.00	82.10	C
ATOM	343	CD1	LEU	44	26.699	-46.468	-20.676	1.00	82.10	C
ATOM	344	CD2	LEU	44	26.706	-47.869	-22.809	1.00	82.10	C
ATOM	345	C	LEU	44	24.479	-43.478	-23.147	1.00	82.10	C
ATOM	346	O	LEU	44	24.654	-42.796	-24.153	1.00	82.10	O
ATOM	347	N	ILE	45	23.267	-43.667	-22.597	1.00	93.74	N
ATOM	348	CA	ILE	45	22.062	-43.168	-23.188	1.00	93.74	C
ATOM	349	CB	ILE	45	20.833	-43.633	-22.462	1.00	93.74	C
ATOM	350	CG2	ILE	45	20.768	-45.166	-22.564	1.00	93.74	C

ATOM	351	CG1	ILE	45	20.837	-43.114	-21.017	1.00	93.74	C
ATOM	352	CD1	ILE	45	19.503	-43.284	-20.296	1.00	93.74	C
ATOM	353	C	ILE	45	22.063	-41.675	-23.166	1.00	93.74	C
ATOM	354	O	ILE	45	21.663	-41.028	-24.132	1.00	93.74	O
ATOM	355	N	ILE	46	22.506	-41.086	-22.047	1.00152.17		N
ATOM	356	CA	ILE	46	22.439	-39.672	-21.877	1.00152.17		C
ATOM	357	CB	ILE	46	22.810	-39.250	-20.481	1.00152.17		C
ATOM	358	CG2	ILE	46	24.295	-39.574	-20.256	1.00152.17		C
ATOM	359	CG1	ILE	46	22.410	-37.790	-20.191	1.00152.17		C
ATOM	360	CD1	ILE	46	23.157	-36.734	-21.006	1.00152.17		C
ATOM	361	C	ILE	46	23.307	-38.986	-22.890	1.00152.17		C
ATOM	362	O	ILE	46	22.859	-38.044	-23.540	1.00152.17		O
ATOM	363	N	LEU	47	24.568	-39.423	-23.062	1.00	90.41	N
ATOM	364	CA	LEU	47	25.429	-38.760	-24.003	1.00	90.41	C
ATOM	365	CB	LEU	47	26.918	-39.137	-23.876	1.00	90.41	C
ATOM	366	CG	LEU	47	27.601	-38.562	-22.617	1.00	90.41	C
ATOM	367	CD1	LEU	47	27.011	-39.167	-21.333	1.00	90.41	C
ATOM	368	CD2	LEU	47	29.134	-38.676	-22.702	1.00	90.41	C
ATOM	369	C	LEU	47	25.010	-39.012	-25.419	1.00	90.41	C
ATOM	370	O	LEU	47	25.015	-38.101	-26.245	1.00	90.41	O
ATOM	371	N	VAL	48	24.624	-40.260	-25.740	1.00	39.19	N
ATOM	372	CA	VAL	48	24.358	-40.612	-27.106	1.00	39.19	C
ATOM	373	CB	VAL	48	24.025	-42.064	-27.288	1.00	39.19	C
ATOM	374	CG1	VAL	48	23.627	-42.295	-28.758	1.00	39.19	C
ATOM	375	CG2	VAL	48	25.229	-42.903	-26.830	1.00	39.19	C
ATOM	376	C	VAL	48	23.211	-39.834	-27.662	1.00	39.19	C
ATOM	377	O	VAL	48	23.307	-39.276	-28.755	1.00	39.19	O
ATOM	378	N	ILE	49	22.094	-39.747	-26.923	1.00	71.89	N
ATOM	379	CA	ILE	49	20.955	-39.131	-27.520	1.00	71.89	C
ATOM	380	CB	ILE	49	19.717	-39.261	-26.685	1.00	71.89	C
ATOM	381	CG2	ILE	49	18.557	-38.675	-27.496	1.00	71.89	C
ATOM	382	CG1	ILE	49	19.453	-40.738	-26.349	1.00	71.89	C
ATOM	383	CD1	ILE	49	18.303	-40.932	-25.362	1.00	71.89	C
ATOM	384	C	ILE	49	21.263	-37.694	-27.809	1.00	71.89	C
ATOM	385	O	ILE	49	21.040	-37.241	-28.924	1.00	71.89	O
ATOM	386	N	ILE	50	21.865	-36.952	-26.861	1.00172.05		N
ATOM	387	CA	ILE	50	22.133	-35.555	-27.087	1.00172.05		C
ATOM	388	CB	ILE	50	22.807	-34.892	-25.912	1.00172.05		C
ATOM	389	CG2	ILE	50	24.217	-35.491	-25.754	1.00172.05		C
ATOM	390	CG1	ILE	50	22.773	-33.354	-26.030	1.00172.05		C
ATOM	391	CD1	ILE	50	23.605	-32.776	-27.174	1.00172.05		C
ATOM	392	C	ILE	50	23.013	-35.437	-28.294	1.00172.05		C
ATOM	393	O	ILE	50	22.839	-34.540	-29.120	1.00172.05		O
ATOM	394	N	THR	51	23.986	-36.351	-28.430	1.00	32.30	N
ATOM	395	CA	THR	51	24.885	-36.316	-29.543	1.00	32.30	C
ATOM	396	CB	THR	51	25.950	-37.372	-29.466	1.00	32.30	C
ATOM	397	OG1	THR	51	26.731	-37.196	-28.292	1.00	32.30	O
ATOM	398	CG2	THR	51	26.834	-37.274	-30.721	1.00	32.30	C
ATOM	399	C	THR	51	24.096	-36.560	-30.786	1.00	32.30	C
ATOM	400	O	THR	51	24.365	-35.952	-31.820	1.00	32.30	O
ATOM	401	N	ASP	52	23.087	-37.450	-30.717	1.00	53.77	N
ATOM	402	CA	ASP	52	22.360	-37.819	-31.899	1.00	53.77	C
ATOM	403	CB	ASP	52	21.304	-38.912	-31.660	1.00	53.77	C
ATOM	404	CG	ASP	52	22.022	-40.229	-31.399	1.00	53.77	C
ATOM	405	OD1	ASP	52	23.081	-40.464	-32.039	1.00	53.77	O
ATOM	406	OD2	ASP	52	21.509	-41.021	-30.564	1.00	53.77	O
ATOM	407	C	ASP	52	21.658	-36.629	-32.479	1.00	53.77	C
ATOM	408	O	ASP	52	21.196	-35.741	-31.770	1.00	53.77	O
ATOM	409	N	THR	53	21.625	-36.558	-33.824	1.00109.42		N
ATOM	410	CA	THR	53	20.931	-35.517	-34.529	1.00109.42		C
ATOM	411	CB	THR	53	21.270	-35.474	-35.993	1.00109.42		C
ATOM	412	OG1	THR	53	20.707	-34.317	-36.593	1.00109.42		O
ATOM	413	CG2	THR	53	20.731	-36.743	-36.672	1.00109.42		C
ATOM	414	C	THR	53	19.451	-35.742	-34.406	1.00109.42		C
ATOM	415	O	THR	53	18.673	-34.799	-34.272	1.00109.42		O
ATOM	416	N	GLN	54	19.048	-37.026	-34.418	1.00128.50		N
ATOM	417	CA	GLN	54	17.698	-37.534	-34.396	1.00128.50		C
ATOM	418	CB	GLN	54	17.653	-39.069	-34.415	1.00128.50		C
ATOM	419	CG	GLN	54	16.244	-39.658	-34.386	1.00128.50		C
ATOM	420	CD	GLN	54	16.402	-41.170	-34.334	1.00128.50		C
ATOM	421	OE1	GLN	54	15.767	-41.849	-33.529	1.00128.50		O
ATOM	422	NE2	GLN	54	17.280	-41.713	-35.219	1.00128.50		N
ATOM	423	C	GLN	54	17.039	-37.126	-33.118	1.00128.50		C
ATOM	424	O	GLN	54	15.818	-37.165	-32.988	1.00128.50		O
ATOM	425	N	LEU	55	17.883	-36.764	-32.144	1.00215.84		N
ATOM	426	CA	LEU	55	17.689	-36.462	-30.753	1.00215.84		C
ATOM	427	CB	LEU	55	19.011	-35.956	-30.169	1.00215.84		C

ATOM	428	CG	LEU	55	19.064	-35.134	-28.852	1.00215.84	C
ATOM	429	CD1	LEU	55	18.687	-33.659	-29.080	1.00215.84	C
ATOM	430	CD2	LEU	55	18.275	-35.765	-27.703	1.00215.84	C
ATOM	431	C	LEU	55	16.723	-35.400	-30.384	1.00215.84	C
ATOM	432	O	LEU	55	16.096	-35.556	-29.342	1.00215.84	O
ATOM	433	N	HIS	56	16.602	-34.280	-31.117	1.00161.37	N
ATOM	434	CA	HIS	56	15.816	-33.254	-30.490	1.00161.37	C
ATOM	435	ND1	HIS	56	15.844	-31.150	-33.256	1.00161.37	N
ATOM	436	CG	HIS	56	16.674	-31.568	-32.243	1.00161.37	C
ATOM	437	CB	HIS	56	16.238	-31.808	-30.829	1.00161.37	C
ATOM	438	NE2	HIS	56	17.881	-31.319	-34.134	1.00161.37	N
ATOM	439	CD2	HIS	56	17.916	-31.667	-32.795	1.00161.37	C
ATOM	440	CE1	HIS	56	16.617	-31.016	-34.365	1.00161.37	C
ATOM	441	C	HIS	56	14.343	-33.432	-30.669	1.00161.37	C
ATOM	442	O	HIS	56	13.758	-33.062	-31.685	1.00161.37	O
ATOM	443	N	THR	57	13.704	-33.965	-29.606	1.00134.09	N
ATOM	444	CA	THR	57	12.301	-34.250	-29.572	1.00134.09	C
ATOM	445	CB	THR	57	12.070	-35.742	-29.575	1.00134.09	C
ATOM	446	OG1	THR	57	10.792	-36.090	-30.086	1.00134.09	O
ATOM	447	CG2	THR	57	12.229	-36.252	-28.134	1.00134.09	C
ATOM	448	C	THR	57	11.831	-33.649	-28.267	1.00134.09	C
ATOM	449	O	THR	57	12.573	-32.871	-27.670	1.00134.09	O
ATOM	450	N	PRO	58	10.651	-33.927	-27.771	1.00150.45	N
ATOM	451	CA	PRO	58	10.293	-33.342	-26.508	1.00150.45	C
ATOM	452	CD	PRO	58	9.478	-34.042	-28.625	1.00150.45	C
ATOM	453	CB	PRO	58	8.812	-33.652	-26.314	1.00150.45	C
ATOM	454	CG	PRO	58	8.275	-33.632	-27.756	1.00150.45	C
ATOM	455	C	PRO	58	11.203	-33.796	-25.417	1.00150.45	C
ATOM	456	O	PRO	58	11.159	-33.225	-24.329	1.00150.45	O
ATOM	457	N	MET	59	11.961	-34.873	-25.671	1.00155.68	N
ATOM	458	CA	MET	59	12.945	-35.422	-24.785	1.00155.68	C
ATOM	459	CB	MET	59	13.427	-36.810	-25.222	1.00155.68	C
ATOM	460	CG	MET	59	14.487	-36.789	-26.321	1.00155.68	C
ATOM	461	SD	MET	59	15.056	-38.443	-26.804	1.00155.68	S
ATOM	462	CE	MET	59	15.829	-38.821	-25.205	1.00155.68	C
ATOM	463	C	MET	59	14.165	-34.556	-24.733	1.00155.68	C
ATOM	464	O	MET	59	14.851	-34.525	-23.712	1.00155.68	O
ATOM	465	N	TYR	60	14.482	-33.835	-25.827	1.00158.00	N
ATOM	466	CA	TYR	60	15.753	-33.166	-25.908	1.00158.00	C
ATOM	467	CB	TYR	60	16.003	-32.379	-27.219	1.00158.00	C
ATOM	468	CG	TYR	60	15.462	-30.988	-27.145	1.00158.00	C
ATOM	469	CD1	TYR	60	16.248	-29.979	-26.632	1.00158.00	C
ATOM	470	CD2	TYR	60	14.204	-30.671	-27.602	1.00158.00	C
ATOM	471	CE1	TYR	60	15.787	-28.688	-26.549	1.00158.00	C
ATOM	472	CE2	TYR	60	13.734	-29.379	-27.523	1.00158.00	C
ATOM	473	CZ	TYR	60	14.526	-28.386	-26.995	1.00158.00	C
ATOM	474	OH	TYR	60	14.053	-27.060	-26.909	1.00158.00	O
ATOM	475	C	TYR	60	15.879	-32.216	-24.764	1.00158.00	C
ATOM	476	O	TYR	60	16.954	-32.083	-24.182	1.00158.00	O
ATOM	477	N	PHE	61	14.795	-31.509	-24.407	1.00 48.88	N
ATOM	478	CA	PHE	61	14.934	-30.604	-23.306	1.00 48.88	C
ATOM	479	CB	PHE	61	13.665	-29.797	-22.986	1.00 48.88	C
ATOM	480	CG	PHE	61	14.039	-28.848	-21.898	1.00 48.88	C
ATOM	481	CD1	PHE	61	14.695	-27.673	-22.193	1.00 48.88	C
ATOM	482	CD2	PHE	61	13.735	-29.127	-20.586	1.00 48.88	C
ATOM	483	CE1	PHE	61	15.046	-26.790	-21.200	1.00 48.88	C
ATOM	484	CE2	PHE	61	14.083	-28.247	-19.586	1.00 48.88	C
ATOM	485	CZ	PHE	61	14.738	-27.078	-19.892	1.00 48.88	C
ATOM	486	C	PHE	61	15.273	-31.427	-22.106	1.00 48.88	C
ATOM	487	O	PHE	61	16.131	-31.059	-21.304	1.00 48.88	O
ATOM	488	N	PHE	62	14.607	-32.586	-21.972	1.00 66.79	N
ATOM	489	CA	PHE	62	14.803	-33.463	-20.857	1.00 66.79	C
ATOM	490	CB	PHE	62	13.848	-34.669	-20.847	1.00 66.79	C
ATOM	491	CG	PHE	62	12.511	-34.173	-20.412	1.00 66.79	C
ATOM	492	CD1	PHE	62	11.626	-33.624	-21.312	1.00 66.79	C
ATOM	493	CD2	PHE	62	12.147	-34.257	-19.087	1.00 66.79	C
ATOM	494	CE1	PHE	62	10.397	-33.168	-20.898	1.00 66.79	C
ATOM	495	CE2	PHE	62	10.920	-33.801	-18.667	1.00 66.79	C
ATOM	496	CZ	PHE	62	10.041	-33.258	-19.573	1.00 66.79	C
ATOM	497	C	PHE	62	16.201	-33.974	-20.835	1.00 66.79	C
ATOM	498	O	PHE	62	16.772	-34.098	-19.761	1.00 66.79	O
ATOM	499	N	LEU	63	16.802	-34.305	-21.989	1.00 82.29	N
ATOM	500	CA	LEU	63	18.121	-34.865	-21.931	1.00 82.29	C
ATOM	501	CB	LEU	63	18.600	-35.444	-23.263	1.00 82.29	C
ATOM	502	CG	LEU	63	17.728	-36.642	-23.668	1.00 82.29	C
ATOM	503	CD1	LEU	63	18.397	-37.443	-24.781	1.00 82.29	C
ATOM	504	CD2	LEU	63	17.338	-37.504	-22.455	1.00 82.29	C

ATOM	505	C	LEU	63	19.114	-33.881	-21.403	1.00	82.29	C
ATOM	506	O	LEU	63	20.023	-34.263	-20.667	1.00	82.29	O
ATOM	507	N	ALA	64	18.989	-32.590	-21.754	1.00	33.45	N
ATOM	508	CA	ALA	64	19.948	-31.658	-21.230	1.00	33.45	C
ATOM	509	CB	ALA	64	19.693	-30.218	-21.699	1.00	33.45	C
ATOM	510	C	ALA	64	19.818	-31.696	-19.739	1.00	33.45	C
ATOM	511	O	ALA	64	20.808	-31.716	-19.008	1.00	33.45	O
ATOM	512	N	ASN	65	18.565	-31.745	-19.261	1.00	60.60	N
ATOM	513	CA	ASN	65	18.259	-31.798	-17.862	1.00	60.60	C
ATOM	514	CB	ASN	65	16.742	-31.794	-17.613	1.00	60.60	C
ATOM	515	CG	ASN	65	16.490	-32.074	-16.139	1.00	60.60	C
ATOM	516	OD1	ASN	65	17.108	-31.476	-15.260	1.00	60.60	O
ATOM	517	ND2	ASN	65	15.559	-33.027	-15.864	1.00	60.60	N
ATOM	518	C	ASN	65	18.791	-33.072	-17.284	1.00	60.60	C
ATOM	519	O	ASN	65	19.277	-33.090	-16.159	1.00	60.60	O
ATOM	520	N	LEU	66	18.709	-34.167	-18.055	1.00	126.45	N
ATOM	521	CA	LEU	66	19.045	-35.505	-17.667	1.00	126.45	C
ATOM	522	CB	LEU	66	18.802	-36.491	-18.833	1.00	126.45	C
ATOM	523	CG	LEU	66	18.931	-37.998	-18.521	1.00	126.45	C
ATOM	524	CD1	LEU	66	20.339	-38.395	-18.053	1.00	126.45	C
ATOM	525	CD2	LEU	66	17.814	-38.467	-17.583	1.00	126.45	C
ATOM	526	C	LEU	66	20.495	-35.552	-17.335	1.00	126.45	C
ATOM	527	O	LEU	66	20.892	-36.194	-16.366	1.00	126.45	O
ATOM	528	N	SER	67	21.339	-34.887	-18.141	1.00	25.30	N
ATOM	529	CA	SER	67	22.739	-34.958	-17.853	1.00	25.30	C
ATOM	530	CB	SER	67	23.605	-34.163	-18.844	1.00	25.30	C
ATOM	531	OG	SER	67	23.299	-32.778	-18.765	1.00	25.30	O
ATOM	532	C	SER	67	22.934	-34.362	-16.506	1.00	25.30	C
ATOM	533	O	SER	67	23.668	-34.892	-15.678	1.00	25.30	O
ATOM	534	N	LEU	68	22.258	-33.230	-16.257	1.00	47.50	N
ATOM	535	CA	LEU	68	22.369	-32.554	-15.002	1.00	47.50	C
ATOM	536	CB	LEU	68	21.545	-31.256	-14.980	1.00	47.50	C
ATOM	537	CG	LEU	68	21.602	-30.488	-13.647	1.00	47.50	C
ATOM	538	CD1	LEU	68	22.995	-29.891	-13.398	1.00	47.50	C
ATOM	539	CD2	LEU	68	20.474	-29.449	-13.553	1.00	47.50	C
ATOM	540	C	LEU	68	21.815	-33.420	-13.917	1.00	47.50	C
ATOM	541	O	LEU	68	22.415	-33.564	-12.856	1.00	47.50	O
ATOM	542	N	ALA	69	20.633	-34.012	-14.154	1.00	47.96	N
ATOM	543	CA	ALA	69	19.970	-34.773	-13.141	1.00	47.96	C
ATOM	544	CB	ALA	69	18.573	-35.246	-13.580	1.00	47.96	C
ATOM	545	C	ALA	69	20.764	-35.987	-12.803	1.00	47.96	C
ATOM	546	O	ALA	69	21.028	-36.265	-11.635	1.00	47.96	O
ATOM	547	N	ASP	70	21.167	-36.750	-13.831	1.00	66.81	N
ATOM	548	CA	ASP	70	21.902	-37.947	-13.572	1.00	66.81	C
ATOM	549	CB	ASP	70	21.898	-38.926	-14.750	1.00	66.81	C
ATOM	550	CG	ASP	70	20.484	-39.495	-14.747	1.00	66.81	C
ATOM	551	OD1	ASP	70	19.730	-39.182	-13.787	1.00	66.81	O
ATOM	552	OD2	ASP	70	20.136	-40.250	-15.692	1.00	66.81	O
ATOM	553	C	ASP	70	23.290	-37.628	-13.131	1.00	66.81	C
ATOM	554	O	ASP	70	23.832	-38.281	-12.244	1.00	66.81	O
ATOM	555	N	ALA	71	23.927	-36.619	-13.740	1.00	35.21	N
ATOM	556	CA	ALA	71	25.255	-36.317	-13.305	1.00	35.21	C
ATOM	557	CB	ALA	71	25.918	-35.206	-14.139	1.00	35.21	C
ATOM	558	C	ALA	71	25.185	-35.843	-11.891	1.00	35.21	C
ATOM	559	O	ALA	71	25.913	-36.320	-11.023	1.00	35.21	O
ATOM	560	N	CYS	72	24.272	-34.900	-11.608	1.00	91.85	N
ATOM	561	CA	CYS	72	24.214	-34.382	-10.278	1.00	91.85	C
ATOM	562	CB	CYS	72	23.161	-33.273	-10.105	1.00	91.85	C
ATOM	563	SG	CYS	72	23.587	-31.737	-10.978	1.00	91.85	S
ATOM	564	C	CYS	72	23.848	-35.482	-9.339	1.00	91.85	C
ATOM	565	O	CYS	72	24.590	-35.781	-8.405	1.00	91.85	O
ATOM	566	N	PHE	73	22.682	-36.119	-9.559	1.00	91.74	N
ATOM	567	CA	PHE	73	22.293	-37.127	-8.618	1.00	91.74	C
ATOM	568	CB	PHE	73	20.850	-37.615	-8.799	1.00	91.74	C
ATOM	569	CG	PHE	73	20.728	-38.777	-7.878	1.00	91.74	C
ATOM	570	CD1	PHE	73	20.589	-38.571	-6.527	1.00	91.74	C
ATOM	571	CD2	PHE	73	20.755	-40.066	-8.364	1.00	91.74	C
ATOM	572	CE1	PHE	73	20.481	-39.639	-5.672	1.00	91.74	C
ATOM	573	CE2	PHE	73	20.645	-41.137	-7.510	1.00	91.74	C
ATOM	574	CZ	PHE	73	20.507	-40.923	-6.160	1.00	91.74	C
ATOM	575	C	PHE	73	23.135	-38.353	-8.690	1.00	91.74	C
ATOM	576	O	PHE	73	23.832	-38.716	-7.745	1.00	91.74	O
ATOM	577	N	VAL	74	23.112	-39.023	-9.849	1.00	86.53	N
ATOM	578	CA	VAL	74	23.798	-40.273	-9.915	1.00	86.53	C
ATOM	579	CB	VAL	74	23.591	-40.970	-11.225	1.00	86.53	C
ATOM	580	CG1	VAL	74	24.487	-42.221	-11.254	1.00	86.53	C
ATOM	581	CG2	VAL	74	22.089	-41.255	-11.402	1.00	86.53	C

ATOM	582	C	VAL	74	25.261	-40.051	-9.786	1.00	86.53	C
ATOM	583	O	VAL	74	25.936	-40.633	-8.938	1.00	86.53	O
ATOM	584	N	SER	75	25.792	-39.166	-10.636	1.00139.01		N
ATOM	585	CA	SER	75	27.212	-39.077	-10.655	1.00139.01		C
ATOM	586	CB	SER	75	27.746	-38.201	-11.802	1.00139.01		C
ATOM	587	OG	SER	75	27.406	-38.773	-13.057	1.00139.01		O
ATOM	588	C	SER	75	27.778	-38.545	-9.384	1.00139.01		C
ATOM	589	O	SER	75	28.241	-39.293	-8.525	1.00139.01		O
ATOM	590	N	THR	76	27.736	-37.211	-9.237	1.00120.48		N
ATOM	591	CA	THR	76	28.435	-36.585	-8.158	1.00120.48		C
ATOM	592	CB	THR	76	28.523	-35.094	-8.321	1.00120.48		C
ATOM	593	OG1	THR	76	29.329	-34.536	-7.293	1.00120.48		O
ATOM	594	CG2	THR	76	27.108	-34.496	-8.283	1.00120.48		C
ATOM	595	C	THR	76	27.861	-36.874	-6.806	1.00120.48		C
ATOM	596	O	THR	76	28.594	-37.252	-5.894	1.00120.48		O
ATOM	597	N	THR	77	26.536	-36.714	-6.637	1.00	63.95	N
ATOM	598	CA	THR	77	25.948	-36.789	-5.329	1.00	63.95	C
ATOM	599	CB	THR	77	24.586	-36.150	-5.232	1.00	63.95	C
ATOM	600	OG1	THR	77	23.619	-36.868	-5.977	1.00	63.95	O
ATOM	601	CG2	THR	77	24.691	-34.716	-5.779	1.00	63.95	C
ATOM	602	C	THR	77	25.901	-38.187	-4.790	1.00	63.95	C
ATOM	603	O	THR	77	25.976	-38.379	-3.577	1.00	63.95	O
ATOM	604	N	VAL	78	25.783	-39.206	-5.663	1.00	57.94	N
ATOM	605	CA	VAL	78	25.613	-40.554	-5.192	1.00	57.94	C
ATOM	606	CB	VAL	78	25.481	-41.575	-6.283	1.00	57.94	C
ATOM	607	CG1	VAL	78	25.562	-42.969	-5.638	1.00	57.94	C
ATOM	608	CG2	VAL	78	24.140	-41.342	-6.996	1.00	57.94	C
ATOM	609	C	VAL	78	26.742	-40.987	-4.309	1.00	57.94	C
ATOM	610	O	VAL	78	26.492	-41.673	-3.319	1.00	57.94	O
ATOM	611	N	PRO	79	27.967	-40.644	-4.576	1.00	67.25	N
ATOM	612	CA	PRO	79	29.025	-41.123	-3.732	1.00	67.25	C
ATOM	613	CD	PRO	79	28.424	-40.384	-5.929	1.00	67.25	C
ATOM	614	CB	PRO	79	30.316	-40.696	-4.423	1.00	67.25	C
ATOM	615	CG	PRO	79	29.931	-40.693	-5.916	1.00	67.25	C
ATOM	616	C	PRO	79	28.855	-40.664	-2.319	1.00	67.25	C
ATOM	617	O	PRO	79	29.339	-41.342	-1.413	1.00	67.25	O
ATOM	618	N	LYS	80	28.184	-39.518	-2.107	1.00115.21		N
ATOM	619	CA	LYS	80	27.928	-39.044	-0.778	1.00115.21		C
ATOM	620	CB	LYS	80	27.208	-37.682	-0.745	1.00115.21		C
ATOM	621	CG	LYS	80	26.758	-37.268	0.660	1.00115.21		C
ATOM	622	CD	LYS	80	27.911	-37.031	1.637	1.00115.21		C
ATOM	623	CE	LYS	80	27.467	-36.764	3.078	1.00115.21		C
ATOM	624	NZ	LYS	80	28.651	-36.709	3.966	1.00115.21		N
ATOM	625	C	LYS	80	27.038	-40.050	-0.129	1.00115.21		C
ATOM	626	O	LYS	80	27.124	-40.299	1.073	1.00115.21		O
ATOM	627	N	MET	81	26.145	-40.651	-0.935	1.00116.06		N
ATOM	628	CA	MET	81	25.200	-41.617	-0.461	1.00116.06		C
ATOM	629	CB	MET	81	24.276	-42.137	-1.575	1.00116.06		C
ATOM	630	CG	MET	81	23.217	-43.119	-1.073	1.00116.06		C
ATOM	631	SD	MET	81	21.905	-42.349	-0.080	1.00116.06		S
ATOM	632	CE	MET	81	22.929	-42.107	1.399	1.00116.06		C
ATOM	633	C	MET	81	25.935	-42.801	0.091	1.00116.06		C
ATOM	634	O	MET	81	25.605	-43.296	1.167	1.00116.06		O
ATOM	635	N	LEU	82	26.976	-43.277	-0.616	1.00	38.57	N
ATOM	636	CA	LEU	82	27.700	-44.418	-0.135	1.00	38.57	C
ATOM	637	CB	LEU	82	28.857	-44.834	-1.058	1.00	38.57	C
ATOM	638	CG	LEU	82	28.391	-45.391	-2.414	1.00	38.57	C
ATOM	639	CD1	LEU	82	29.589	-45.799	-3.286	1.00	38.57	C
ATOM	640	CD2	LEU	82	27.369	-46.526	-2.227	1.00	38.57	C
ATOM	641	C	LEU	82	28.299	-44.028	1.171	1.00	38.57	C
ATOM	642	O	LEU	82	28.305	-44.803	2.127	1.00	38.57	O
ATOM	643	N	ALA	83	28.781	-42.778	1.249	1.00	32.90	N
ATOM	644	CA	ALA	83	29.422	-42.306	2.436	1.00	32.90	C
ATOM	645	CB	ALA	83	29.851	-40.833	2.333	1.00	32.90	C
ATOM	646	C	ALA	83	28.434	-42.413	3.550	1.00	32.90	C
ATOM	647	O	ALA	83	28.787	-42.752	4.679	1.00	32.90	O
ATOM	648	N	ASN	84	27.154	-42.133	3.260	1.00	85.31	N
ATOM	649	CA	ASN	84	26.170	-42.162	4.300	1.00	85.31	C
ATOM	650	CB	ASN	84	24.762	-41.885	3.743	1.00	85.31	C
ATOM	651	CG	ASN	84	23.759	-41.812	4.881	1.00	85.31	C
ATOM	652	OD1	ASN	84	23.613	-42.750	5.663	1.00	85.31	O
ATOM	653	ND2	ASN	84	23.048	-40.657	4.974	1.00	85.31	N
ATOM	654	C	ASN	84	26.144	-43.526	4.927	1.00	85.31	C
ATOM	655	O	ASN	84	26.255	-43.655	6.146	1.00	85.31	O
ATOM	656	N	ILE	85	25.994	-44.582	4.104	1.00103.90		N
ATOM	657	CA	ILE	85	25.903	-45.926	4.606	1.00103.90		C
ATOM	658	CB	ILE	85	25.474	-46.922	3.563	1.00103.90		C

ATOM	659	CG2	ILE	85	26.483	-46.882	2.403	1.00103.90	C
ATOM	660	CG1	ILE	85	25.298	-48.311	4.201	1.00103.90	C
ATOM	661	CD1	ILE	85	24.694	-49.352	3.263	1.00103.90	C
ATOM	662	C	ILE	85	27.201	-46.420	5.167	1.00103.90	C
ATOM	663	O	ILE	85	27.235	-46.982	6.260	1.00103.90	O
ATOM	664	N	GLN	86	28.313	-46.198	4.442	1.00 81.52	N
ATOM	665	CA	GLN	86	29.562	-46.795	4.817	1.00 81.52	C
ATOM	666	CB	GLN	86	30.689	-46.480	3.825	1.00 81.52	C
ATOM	667	CG	GLN	86	30.353	-46.950	2.409	1.00 81.52	C
ATOM	668	CD	GLN	86	30.068	-48.445	2.473	1.00 81.52	C
ATOM	669	OE1	GLN	86	30.963	-49.250	2.727	1.00 81.52	O
ATOM	670	NE2	GLN	86	28.784	-48.831	2.239	1.00 81.52	N
ATOM	671	C	GLN	86	29.962	-46.305	6.164	1.00 81.52	C
ATOM	672	O	GLN	86	30.448	-47.070	6.995	1.00 81.52	O
ATOM	673	N	ILE	87	29.741	-45.009	6.425	1.00165.14	N
ATOM	674	CA	ILE	87	30.095	-44.464	7.696	1.00165.14	C
ATOM	675	CB	ILE	87	29.788	-42.988	7.800	1.00165.14	C
ATOM	676	CG2	ILE	87	28.264	-42.796	7.848	1.00165.14	C
ATOM	677	CG1	ILE	87	30.544	-42.333	8.971	1.00165.14	C
ATOM	678	CD1	ILE	87	30.195	-42.897	10.344	1.00165.14	C
ATOM	679	C	ILE	87	29.291	-45.225	8.697	1.00165.14	C
ATOM	680	O	ILE	87	29.768	-45.543	9.785	1.00165.14	O
ATOM	681	N	GLN	88	28.045	-45.569	8.321	1.00298.59	N
ATOM	682	CA	GLN	88	27.134	-46.220	9.209	1.00298.59	C
ATOM	683	CB	GLN	88	27.657	-47.534	9.818	1.00298.59	C
ATOM	684	CG	GLN	88	26.634	-48.220	10.728	1.00298.59	C
ATOM	685	CD	GLN	88	27.208	-49.559	11.167	1.00298.59	C
ATOM	686	OE1	GLN	88	28.413	-49.791	11.076	1.00298.59	O
ATOM	687	NE2	GLN	88	26.321	-50.471	11.650	1.00298.59	N
ATOM	688	C	GLN	88	26.909	-45.238	10.296	1.00298.59	C
ATOM	689	O	GLN	88	27.585	-45.230	11.323	1.00298.59	O
ATOM	690	N	SER	89	25.924	-44.363	10.049	1.00186.13	N
ATOM	691	CA	SER	89	25.600	-43.299	10.937	1.00186.13	C
ATOM	692	CB	SER	89	26.827	-42.555	11.491	1.00186.13	C
ATOM	693	OG	SER	89	27.521	-41.907	10.435	1.00186.13	O
ATOM	694	C	SER	89	24.832	-42.340	10.099	1.00186.13	C
ATOM	695	O	SER	89	24.068	-42.737	9.220	1.00186.13	O
ATOM	696	N	GLN	90	25.004	-41.035	10.361	1.00177.43	N
ATOM	697	CA	GLN	90	24.307	-40.066	9.578	1.00177.43	C
ATOM	698	CB	GLN	90	23.778	-38.873	10.393	1.00177.43	C
ATOM	699	CG	GLN	90	24.893	-38.000	10.973	1.00177.43	C
ATOM	700	CD	GLN	90	25.625	-38.811	12.031	1.00177.43	C
ATOM	701	OE1	GLN	90	25.091	-39.074	13.108	1.00177.43	O
ATOM	702	NE2	GLN	90	26.881	-39.228	11.714	1.00177.43	N
ATOM	703	C	GLN	90	25.280	-39.509	8.594	1.00177.43	C
ATOM	704	O	GLN	90	26.488	-39.711	8.702	1.00177.43	O
ATOM	705	N	ALA	91	24.753	-38.829	7.561	1.00 54.37	N
ATOM	706	CA	ALA	91	25.599	-38.176	6.612	1.00 54.37	C
ATOM	707	CB	ALA	91	24.911	-37.873	5.267	1.00 54.37	C
ATOM	708	C	ALA	91	25.983	-36.868	7.222	1.00 54.37	C
ATOM	709	O	ALA	91	25.356	-36.411	8.176	1.00 54.37	O
ATOM	710	N	ILE	92	27.068	-36.248	6.721	1.00173.36	N
ATOM	711	CA	ILE	92	27.413	-34.963	7.248	1.00173.36	C
ATOM	712	CB	ILE	92	28.726	-34.952	8.001	1.00173.36	C
ATOM	713	CG2	ILE	92	29.876	-35.235	7.022	1.00173.36	C
ATOM	714	CG1	ILE	92	28.903	-33.657	8.818	1.00173.36	C
ATOM	715	CD1	ILE	92	29.025	-32.372	7.998	1.00173.36	C
ATOM	716	C	ILE	92	27.481	-34.005	6.099	1.00173.36	C
ATOM	717	O	ILE	92	28.166	-34.265	5.111	1.00173.36	O
ATOM	718	N	SER	93	26.715	-32.895	6.211	1.00256.26	N
ATOM	719	CA	SER	93	26.653	-31.796	5.280	1.00256.26	C
ATOM	720	CB	SER	93	27.173	-32.057	3.851	1.00256.26	C
ATOM	721	OG	SER	93	28.594	-32.063	3.840	1.00256.26	O
ATOM	722	C	SER	93	25.229	-31.346	5.178	1.00256.26	C
ATOM	723	O	SER	93	24.365	-31.794	5.930	1.00256.26	O
ATOM	724	N	TYR	94	24.973	-30.408	4.241	1.00249.33	N
ATOM	725	CA	TYR	94	23.663	-29.869	4.000	1.00249.33	C
ATOM	726	CB	TYR	94	23.773	-28.333	3.858	1.00249.33	C
ATOM	727	CG	TYR	94	22.457	-27.631	3.774	1.00249.33	C
ATOM	728	CD1	TYR	94	21.778	-27.294	4.921	1.00249.33	C
ATOM	729	CD2	TYR	94	21.915	-27.272	2.560	1.00249.33	C
ATOM	730	CE1	TYR	94	20.575	-26.634	4.854	1.00249.33	C
ATOM	731	CE2	TYR	94	20.711	-26.611	2.486	1.00249.33	C
ATOM	732	CZ	TYR	94	20.037	-26.292	3.639	1.00249.33	C
ATOM	733	OH	TYR	94	18.801	-25.613	3.578	1.00249.33	O
ATOM	734	C	TYR	94	23.258	-30.424	2.669	1.00249.33	C
ATOM	735	O	TYR	94	22.362	-29.912	1.999	1.00249.33	O

ATOM	736	N	SER	95	23.889	-31.546	2.284	1.00116.79	N
ATOM	737	CA	SER	95	23.685	-32.147	1.000	1.00116.79	C
ATOM	738	CB	SER	95	24.724	-33.237	0.688	1.00116.79	C
ATOM	739	OG	SER	95	24.583	-34.318	1.598	1.00116.79	O
ATOM	740	C	SER	95	22.343	-32.794	0.907	1.00116.79	O
ATOM	741	O	SER	95	21.836	-32.989	-0.195	1.00116.79	O
ATOM	742	N	GLY	96	21.728	-33.166	2.044	1.00130.00	N
ATOM	743	CA	GLY	96	20.532	-33.946	1.896	1.00130.00	C
ATOM	744	C	GLY	96	19.466	-33.196	1.160	1.00130.00	C
ATOM	745	O	GLY	96	19.003	-33.639	0.110	1.00130.00	O
ATOM	746	N	CYS	97	19.011	-32.053	1.702	1.00101.13	N
ATOM	747	CA	CYS	97	18.039	-31.292	0.978	1.00101.13	C
ATOM	748	CB	CYS	97	17.027	-30.554	1.859	1.00101.13	C
ATOM	749	SG	CYS	97	15.881	-31.767	2.596	1.00101.13	S
ATOM	750	C	CYS	97	18.682	-30.412	-0.040	1.00101.13	C
ATOM	751	O	CYS	97	18.084	-30.102	-1.067	1.00101.13	O
ATOM	752	N	LEU	98	19.930	-29.973	0.206	1.00148.85	N
ATOM	753	CA	LEU	98	20.492	-29.050	-0.729	1.00148.85	C
ATOM	754	CB	LEU	98	21.859	-28.475	-0.308	1.00148.85	C
ATOM	755	CG	LEU	98	22.407	-27.400	-1.278	1.00148.85	C
ATOM	756	CD1	LEU	98	22.979	-28.000	-2.574	1.00148.85	C
ATOM	757	CD2	LEU	98	21.341	-26.326	-1.559	1.00148.85	C
ATOM	758	C	LEU	98	20.636	-29.695	-2.068	1.00148.85	C
ATOM	759	O	LEU	98	20.386	-29.044	-3.073	1.00148.85	O
ATOM	760	N	LEU	99	21.151	-30.931	-2.159	1.00194.10	N
ATOM	761	CA	LEU	99	21.256	-31.518	-3.466	1.00194.10	C
ATOM	762	CB	LEU	99	22.375	-32.568	-3.539	1.00194.10	C
ATOM	763	CG	LEU	99	23.765	-31.942	-3.297	1.00194.10	C
ATOM	764	CD1	LEU	99	24.887	-32.987	-3.396	1.00194.10	C
ATOM	765	CD2	LEU	99	23.997	-30.726	-4.208	1.00194.10	C
ATOM	766	C	LEU	99	19.980	-32.118	-3.990	1.00194.10	O
ATOM	767	O	LEU	99	19.512	-31.751	-5.065	1.00194.10	O
ATOM	768	N	GLN	100	19.364	-33.045	-3.226	1.00113.91	N
ATOM	769	CA	GLN	100	18.253	-33.816	-3.722	1.00113.91	C
ATOM	770	CB	GLN	100	17.926	-35.026	-2.836	1.00113.91	C
ATOM	771	CG	GLN	100	19.001	-36.115	-2.888	1.00113.91	C
ATOM	772	CD	GLN	100	20.148	-35.710	-1.979	1.00113.91	C
ATOM	773	OE1	GLN	100	20.156	-36.025	-0.790	1.00113.91	O
ATOM	774	NE2	GLN	100	21.153	-35.001	-2.555	1.00113.91	N
ATOM	775	C	GLN	100	17.008	-33.011	-3.896	1.00113.91	C
ATOM	776	O	GLN	100	16.340	-33.103	-4.924	1.00113.91	O
ATOM	777	N	LEU	101	16.654	-32.206	-2.885	1.00107.15	N
ATOM	778	CA	LEU	101	15.463	-31.413	-2.938	1.00107.15	C
ATOM	779	CB	LEU	101	15.254	-30.660	-1.612	1.00107.15	C
ATOM	780	CG	LEU	101	13.995	-29.783	-1.536	1.00107.15	C
ATOM	781	CD1	LEU	101	12.716	-30.639	-1.557	1.00107.15	C
ATOM	782	CD2	LEU	101	14.068	-28.840	-0.324	1.00107.15	C
ATOM	783	C	LEU	101	15.667	-30.396	-4.007	1.00107.15	C
ATOM	784	O	LEU	101	14.775	-30.117	-4.808	1.00107.15	O
ATOM	785	N	TYR	102	16.886	-29.834	-4.056	1.00117.62	N
ATOM	786	CA	TYR	102	17.126	-28.757	-4.960	1.00117.62	C
ATOM	787	CB	TYR	102	18.530	-28.154	-4.849	1.00117.62	C
ATOM	788	CG	TYR	102	18.590	-26.896	-5.647	1.00117.62	C
ATOM	789	CD1	TYR	102	18.918	-26.906	-6.985	1.00117.62	C
ATOM	790	CD2	TYR	102	18.312	-25.695	-5.037	1.00117.62	C
ATOM	791	CE1	TYR	102	18.971	-25.729	-7.695	1.00117.62	C
ATOM	792	CE2	TYR	102	18.363	-24.516	-5.742	1.00117.62	C
ATOM	793	CZ	TYR	102	18.695	-24.533	-7.075	1.00117.62	C
ATOM	794	OH	TYR	102	18.751	-23.329	-7.809	1.00117.62	O
ATOM	795	C	TYR	102	16.963	-29.210	-6.371	1.00117.62	C
ATOM	796	O	TYR	102	16.256	-28.560	-7.138	1.00117.62	O
ATOM	797	N	PHE	103	17.578	-30.340	-6.771	1.00195.36	N
ATOM	798	CA	PHE	103	17.437	-30.660	-8.160	1.00195.36	C
ATOM	799	CB	PHE	103	18.500	-31.609	-8.776	1.00195.36	C
ATOM	800	CG	PHE	103	18.449	-33.025	-8.325	1.00195.36	C
ATOM	801	CD1	PHE	103	19.100	-33.428	-7.185	1.00195.36	C
ATOM	802	CD2	PHE	103	17.767	-33.961	-9.063	1.00195.36	C
ATOM	803	CE1	PHE	103	19.067	-34.739	-6.777	1.00195.36	C
ATOM	804	CE2	PHE	103	17.731	-35.274	-8.663	1.00195.36	C
ATOM	805	CZ	PHE	103	18.380	-35.666	-7.518	1.00195.36	C
ATOM	806	C	PHE	103	16.020	-31.050	-8.463	1.00195.36	C
ATOM	807	O	PHE	103	15.527	-30.810	-9.565	1.00195.36	O
ATOM	808	N	PHE	104	15.313	-31.672	-7.501	1.00128.64	N
ATOM	809	CA	PHE	104	13.953	-32.057	-7.761	1.00128.64	C
ATOM	810	CB	PHE	104	13.354	-33.058	-6.761	1.00128.64	C
ATOM	811	CG	PHE	104	13.979	-34.343	-7.181	1.00128.64	C
ATOM	812	CD1	PHE	104	13.583	-34.933	-8.360	1.00128.64	C

ATOM	813	CD2	PHE	104	14.977	-34.935	-6.446	1.00128.64	C
ATOM	814	CE1	PHE	104	14.153	-36.105	-8.796	1.00128.64	C
ATOM	815	CE2	PHE	104	15.547	-36.108	-6.878	1.00128.64	C
ATOM	816	CZ	PHE	104	15.143	-36.698	-8.053	1.00128.64	C
ATOM	817	C	PHE	104	13.046	-30.877	-7.957	1.00128.64	C
ATOM	818	O	PHE	104	12.172	-30.915	-8.821	1.00128.64	O
ATOM	819	N	MET	105	13.229	-29.783	-7.195	1.00113.41	N
ATOM	820	CA	MET	105	12.349	-28.652	-7.323	1.00113.41	C
ATOM	821	CB	MET	105	12.735	-27.490	-6.389	1.00113.41	C
ATOM	822	CG	MET	105	11.641	-26.436	-6.185	1.00113.41	C
ATOM	823	SD	MET	105	11.192	-25.482	-7.663	1.00113.41	S
ATOM	824	CE	MET	105	12.775	-24.602	-7.794	1.00113.41	C
ATOM	825	C	MET	105	12.467	-28.162	-8.730	1.00113.41	C
ATOM	826	O	MET	105	11.484	-27.768	-9.355	1.00113.41	O
ATOM	827	N	LEU	106	13.695	-28.190	-9.266	1.00137.61	N
ATOM	828	CA	LEU	106	13.946	-27.779	-10.612	1.00137.61	C
ATOM	829	CB	LEU	106	15.437	-27.952	-10.972	1.00137.61	C
ATOM	830	CG	LEU	106	15.857	-27.476	-12.374	1.00137.61	C
ATOM	831	CD1	LEU	106	15.829	-25.944	-12.471	1.00137.61	C
ATOM	832	CD2	LEU	106	17.222	-28.060	-12.775	1.00137.61	C
ATOM	833	C	LEU	106	13.161	-28.711	-11.476	1.00137.61	C
ATOM	834	O	LEU	106	12.617	-28.299	-12.495	1.00137.61	O
ATOM	835	N	PHE	107	13.094	-30.004	-11.101	1.00 47.87	N
ATOM	836	CA	PHE	107	12.387	-30.980	-11.888	1.00 47.87	C
ATOM	837	CB	PHE	107	12.533	-32.418	-11.359	1.00 47.87	C
ATOM	838	CG	PHE	107	11.817	-33.303	-12.323	1.00 47.87	C
ATOM	839	CD1	PHE	107	12.456	-33.748	-13.458	1.00 47.87	C
ATOM	840	CD2	PHE	107	10.513	-33.681	-12.100	1.00 47.87	C
ATOM	841	CE1	PHE	107	11.809	-34.563	-14.356	1.00 47.87	C
ATOM	842	CE2	PHE	107	9.860	-34.497	-12.995	1.00 47.87	C
ATOM	843	CZ	PHE	107	10.507	-34.938	-14.125	1.00 47.87	C
ATOM	844	C	PHE	107	10.925	-30.671	-11.907	1.00 47.87	C
ATOM	845	O	PHE	107	10.292	-30.709	-12.960	1.00 47.87	O
ATOM	846	N	VAL	108	10.336	-30.365	-10.738	1.00112.31	N
ATOM	847	CA	VAL	108	8.929	-30.104	-10.716	1.00112.31	C
ATOM	848	CB	VAL	108	8.383	-30.017	-9.327	1.00112.31	C
ATOM	849	CG1	VAL	108	9.114	-28.905	-8.560	1.00112.31	C
ATOM	850	CG2	VAL	108	6.855	-29.896	-9.435	1.00112.31	C
ATOM	851	C	VAL	108	8.657	-28.860	-11.505	1.00112.31	C
ATOM	852	O	VAL	108	7.687	-28.776	-12.256	1.00112.31	O
ATOM	853	N	MET	109	9.545	-27.866	-11.367	1.00166.85	N
ATOM	854	CA	MET	109	9.474	-26.615	-12.064	1.00166.85	C
ATOM	855	CB	MET	109	10.603	-25.670	-11.642	1.00166.85	C
ATOM	856	CG	MET	109	10.697	-24.415	-12.504	1.00166.85	C
ATOM	857	SD	MET	109	11.602	-24.580	-14.076	1.00166.85	S
ATOM	858	CE	MET	109	13.201	-24.891	-13.280	1.00166.85	C
ATOM	859	C	MET	109	9.660	-26.873	-13.520	1.00166.85	C
ATOM	860	O	MET	109	9.148	-26.146	-14.371	1.00166.85	O
ATOM	861	N	LEU	110	10.428	-27.924	-13.832	1.00110.28	N
ATOM	862	CA	LEU	110	10.847	-28.223	-15.164	1.00110.28	C
ATOM	863	CB	LEU	110	11.628	-29.558	-15.221	1.00110.28	C
ATOM	864	CG	LEU	110	12.197	-30.020	-16.586	1.00110.28	C
ATOM	865	CD1	LEU	110	13.020	-31.304	-16.401	1.00110.28	C
ATOM	866	CD2	LEU	110	11.123	-30.216	-17.671	1.00110.28	C
ATOM	867	C	LEU	110	9.621	-28.339	-15.991	1.00110.28	C
ATOM	868	O	LEU	110	9.596	-27.828	-17.102	1.00110.28	O
ATOM	869	N	GLU	111	8.564	-28.997	-15.489	1.00 45.42	N
ATOM	870	CA	GLU	111	7.393	-29.143	-16.302	1.00 45.42	C
ATOM	871	CB	GLU	111	6.345	-30.092	-15.702	1.00 45.42	C
ATOM	872	CG	GLU	111	6.799	-31.552	-15.770	1.00 45.42	C
ATOM	873	CD	GLU	111	5.650	-32.442	-15.323	1.00 45.42	C
ATOM	874	OE1	GLU	111	4.588	-31.886	-14.936	1.00 45.42	O
ATOM	875	OE2	GLU	111	5.817	-33.690	-15.372	1.00 45.42	O
ATOM	876	C	GLU	111	6.764	-27.810	-16.555	1.00 45.42	C
ATOM	877	O	GLU	111	6.286	-27.549	-17.658	1.00 45.42	O
ATOM	878	N	ALA	112	6.749	-26.916	-15.550	1.00 41.14	N
ATOM	879	CA	ALA	112	6.128	-25.642	-15.768	1.00 41.14	C
ATOM	880	CB	ALA	112	6.270	-24.711	-14.557	1.00 41.14	C
ATOM	881	C	ALA	112	6.857	-24.967	-16.878	1.00 41.14	C
ATOM	882	O	ALA	112	6.265	-24.435	-17.816	1.00 41.14	O
ATOM	883	N	PHE	113	8.192	-25.004	-16.784	1.00165.55	N
ATOM	884	CA	PHE	113	9.065	-24.377	-17.723	1.00165.55	C
ATOM	885	CB	PHE	113	10.438	-23.974	-17.173	1.00165.55	C
ATOM	886	CG	PHE	113	10.131	-22.624	-16.626	1.00165.55	C
ATOM	887	CD1	PHE	113	9.573	-22.460	-15.382	1.00165.55	C
ATOM	888	CD2	PHE	113	10.367	-21.509	-17.397	1.00165.55	C
ATOM	889	CE1	PHE	113	9.283	-21.200	-14.916	1.00165.55	C

ATOM	890	CE2	PHE	113	10.077	-20.248	-16.930	1.00165.55	C
ATOM	891	CZ	PHE	113	9.534	-20.089	-15.680	1.00165.55	C
ATOM	892	C	PHE	113	9.162	-25.088	-19.031	1.00165.55	C
ATOM	893	O	PHE	113	9.603	-24.498	-20.014	1.00165.55	O
ATOM	894	N	LEU	114	8.786	-26.375	-19.081	1.00107.11	N
ATOM	895	CA	LEU	114	8.975	-27.166	-20.261	1.00107.11	C
ATOM	896	CB	LEU	114	8.368	-28.578	-20.107	1.00107.11	C
ATOM	897	CG	LEU	114	8.790	-29.615	-21.170	1.00107.11	C
ATOM	898	CD1	LEU	114	8.116	-30.974	-20.909	1.00107.11	C
ATOM	899	CD2	LEU	114	8.571	-29.118	-22.605	1.00107.11	C
ATOM	900	C	LEU	114	8.276	-26.457	-21.381	1.00107.11	C
ATOM	901	O	LEU	114	8.812	-26.340	-22.482	1.00107.11	O
ATOM	902	N	LEU	115	7.078	-25.910	-21.113	1.00111.50	N
ATOM	903	CA	LEU	115	6.335	-25.230	-22.134	1.00111.50	C
ATOM	904	CB	LEU	115	5.029	-24.625	-21.605	1.00111.50	C
ATOM	905	CG	LEU	115	4.167	-25.680	-20.904	1.00111.50	C
ATOM	906	CD1	LEU	115	3.954	-26.869	-21.844	1.00111.50	C
ATOM	907	CD2	LEU	115	4.741	-26.096	-19.538	1.00111.50	C
ATOM	908	C	LEU	115	7.162	-24.081	-22.579	1.00111.50	C
ATOM	909	O	LEU	115	7.234	-23.763	-23.765	1.00111.50	O
ATOM	910	N	ALA	116	7.827	-23.432	-21.611	1.00 37.85	N
ATOM	911	CA	ALA	116	8.622	-22.285	-21.918	1.00 37.85	C
ATOM	912	CB	ALA	116	9.341	-21.725	-20.681	1.00 37.85	C
ATOM	913	C	ALA	116	9.669	-22.703	-22.897	1.00 37.85	C
ATOM	914	O	ALA	116	9.924	-22.010	-23.881	1.00 37.85	O
ATOM	915	N	VAL	117	10.284	-23.875	-22.668	1.00 35.36	N
ATOM	916	CA	VAL	117	11.308	-24.358	-23.546	1.00 35.36	C
ATOM	917	CB	VAL	117	11.860	-25.681	-23.102	1.00 35.36	C
ATOM	918	CG1	VAL	117	12.889	-26.157	-24.140	1.00 35.36	C
ATOM	919	CG2	VAL	117	12.422	-25.522	-21.679	1.00 35.36	C
ATOM	920	C	VAL	117	10.683	-24.556	-24.887	1.00 35.36	C
ATOM	921	O	VAL	117	11.298	-24.294	-25.919	1.00 35.36	O
ATOM	922	N	MET	118	9.431	-25.043	-24.905	1.00149.09	N
ATOM	923	CA	MET	118	8.780	-25.283	-26.157	1.00149.09	C
ATOM	924	CB	MET	118	7.355	-25.838	-25.979	1.00149.09	C
ATOM	925	CG	MET	118	6.678	-26.254	-27.287	1.00149.09	C
ATOM	926	SD	MET	118	7.364	-27.755	-28.050	1.00149.09	S
ATOM	927	CE	MET	118	6.209	-27.775	-29.452	1.00149.09	C
ATOM	928	C	MET	118	8.670	-23.971	-26.869	1.00149.09	C
ATOM	929	O	MET	118	9.007	-23.849	-28.046	1.00149.09	O
ATOM	930	N	ALA	119	8.223	-22.923	-26.158	1.00 37.85	N
ATOM	931	CA	ALA	119	8.087	-21.665	-26.822	1.00 37.85	C
ATOM	932	CB	ALA	119	7.524	-20.563	-25.905	1.00 37.85	C
ATOM	933	C	ALA	119	9.446	-21.240	-27.260	1.00 37.85	C
ATOM	934	O	ALA	119	9.638	-20.840	-28.406	1.00 37.85	O
ATOM	935	N	TYR	120	10.446	-21.381	-26.371	1.00153.99	N
ATOM	936	CA	TYR	120	11.744	-20.881	-26.708	1.00153.99	C
ATOM	937	CB	TYR	120	12.794	-21.013	-25.599	1.00153.99	C
ATOM	938	CG	TYR	120	14.058	-20.504	-26.205	1.00153.99	C
ATOM	939	CD1	TYR	120	14.277	-19.153	-26.350	1.00153.99	C
ATOM	940	CD2	TYR	120	15.028	-21.383	-26.630	1.00153.99	C
ATOM	941	CE1	TYR	120	15.443	-18.688	-26.911	1.00153.99	C
ATOM	942	CE2	TYR	120	16.196	-20.924	-27.191	1.00153.99	C
ATOM	943	CZ	TYR	120	16.406	-19.573	-27.332	1.00153.99	C
ATOM	944	OH	TYR	120	17.603	-19.099	-27.908	1.00153.99	O
ATOM	945	C	TYR	120	12.293	-21.585	-27.906	1.00153.99	C
ATOM	946	O	TYR	120	12.809	-20.932	-28.812	1.00153.99	O
ATOM	947	N	ASP	121	12.216	-22.930	-27.956	1.00 56.34	N
ATOM	948	CA	ASP	121	12.784	-23.594	-29.094	1.00 56.34	C
ATOM	949	CB	ASP	121	12.866	-25.135	-29.010	1.00 56.34	C
ATOM	950	CG	ASP	121	11.478	-25.753	-29.037	1.00 56.34	C
ATOM	951	OD1	ASP	121	10.778	-25.659	-27.997	1.00 56.34	O
ATOM	952	OD2	ASP	121	11.100	-26.329	-30.092	1.00 56.34	O
ATOM	953	C	ASP	121	11.973	-23.247	-30.294	1.00 56.34	C
ATOM	954	O	ASP	121	12.513	-23.060	-31.381	1.00 56.34	O
ATOM	955	N	CYS	122	10.644	-23.143	-30.127	1.00 51.02	N
ATOM	956	CA	CYS	122	9.801	-22.834	-31.242	1.00 51.02	C
ATOM	957	CB	CYS	122	8.304	-22.785	-30.886	1.00 51.02	C
ATOM	958	SG	CYS	122	7.616	-24.420	-30.487	1.00 51.02	S
ATOM	959	C	CYS	122	10.178	-21.486	-31.758	1.00 51.02	C
ATOM	960	O	CYS	122	10.269	-21.308	-32.963	1.00 51.02	O
ATOM	961	N	TYR	123	10.477	-20.515	-30.872	1.00132.59	N
ATOM	962	CA	TYR	123	10.718	-19.171	-31.327	1.00132.59	C
ATOM	963	CB	TYR	123	11.067	-18.144	-30.223	1.00132.59	C
ATOM	964	CG	TYR	123	9.841	-17.692	-29.484	1.00132.59	C
ATOM	965	CD1	TYR	123	8.947	-16.826	-30.073	1.00132.59	C
ATOM	966	CD2	TYR	123	9.564	-18.123	-28.209	1.00132.59	C

ATOM	967	CE1	TYR	123	7.819	-16.394	-29.417	1.00132.59	C
ATOM	968	CE2	TYR	123	8.437	-17.702	-27.540	1.00132.59	C
ATOM	969	CZ	TYR	123	7.560	-16.833	-28.143	1.00132.59	C
ATOM	970	OH	TYR	123	6.404	-16.396	-27.461	1.00132.59	O
ATOM	971	C	TYR	123	11.825	-19.136	-32.330	1.00132.59	C
ATOM	972	O	TYR	123	11.726	-18.396	-33.307	1.00132.59	O
ATOM	973	N	VAL	124	12.909	-19.915	-32.137	1.00104.16	N
ATOM	974	CA	VAL	124	13.964	-19.864	-33.108	1.00104.16	C
ATOM	975	CB	VAL	124	15.111	-20.794	-32.810	1.00104.16	C
ATOM	976	CG1	VAL	124	14.636	-22.251	-32.909	1.00104.16	C
ATOM	977	CG2	VAL	124	16.262	-20.465	-33.773	1.00104.16	C
ATOM	978	C	VAL	124	13.357	-20.254	-34.419	1.00104.16	C
ATOM	979	O	VAL	124	13.700	-19.696	-35.461	1.00104.16	O
ATOM	980	N	ALA	125	12.459	-21.258	-34.404	1.00 80.54	N
ATOM	981	CA	ALA	125	11.812	-21.621	-35.630	1.00 80.54	C
ATOM	982	CB	ALA	125	11.067	-22.962	-35.525	1.00 80.54	C
ATOM	983	C	ALA	125	10.802	-20.601	-36.109	1.00 80.54	C
ATOM	984	O	ALA	125	10.915	-20.098	-37.224	1.00 80.54	O
ATOM	985	N	ILE	126	9.767	-20.300	-35.288	1.00126.79	N
ATOM	986	CA	ILE	126	8.677	-19.441	-35.671	1.00126.79	C
ATOM	987	CB	ILE	126	7.426	-19.719	-34.887	1.00126.79	C
ATOM	988	CG2	ILE	126	6.385	-18.655	-35.281	1.00126.79	C
ATOM	989	CG1	ILE	126	6.945	-21.165	-35.123	1.00126.79	C
ATOM	990	CD1	ILE	126	7.858	-22.234	-34.523	1.00126.79	C
ATOM	991	C	ILE	126	8.921	-17.964	-35.569	1.00126.79	C
ATOM	992	O	ILE	126	8.898	-17.252	-36.569	1.00126.79	O
ATOM	993	N	CYS	127	9.216	-17.454	-34.354	1.00 67.23	N
ATOM	994	CA	CYS	127	9.260	-16.022	-34.248	1.00 67.23	C
ATOM	995	CB	CYS	127	7.908	-15.393	-33.872	1.00 67.23	C
ATOM	996	SG	CYS	127	6.665	-15.593	-35.182	1.00 67.23	S
ATOM	997	C	CYS	127	10.202	-15.639	-33.166	1.00 67.23	C
ATOM	998	O	CYS	127	10.497	-16.439	-32.290	1.00 67.23	O
ATOM	999	N	HIS	128	10.667	-14.370	-33.196	1.00 93.32	N
ATOM	1000	CA	HIS	128	11.597	-13.904	-32.210	1.00 93.32	C
ATOM	1001	ND1	HIS	128	12.523	-11.906	-29.768	1.00 93.32	N
ATOM	1002	CG	HIS	128	11.980	-13.174	-29.811	1.00 93.32	C
ATOM	1003	CB	HIS	128	10.976	-13.649	-30.824	1.00 93.32	C
ATOM	1004	NE2	HIS	128	13.440	-13.048	-28.093	1.00 93.32	N
ATOM	1005	CD2	HIS	128	12.552	-13.855	-28.781	1.00 93.32	C
ATOM	1006	CE1	HIS	128	13.389	-11.887	-28.722	1.00 93.32	C
ATOM	1007	C	HIS	128	12.715	-14.885	-32.061	1.00 93.32	C
ATOM	1008	O	HIS	128	12.809	-15.537	-31.021	1.00 93.32	O
ATOM	1009	N	PRO	129	13.548	-15.061	-33.054	1.00173.74	N
ATOM	1010	CA	PRO	129	14.665	-15.945	-32.902	1.00173.74	C
ATOM	1011	CD	PRO	129	13.238	-14.796	-34.450	1.00173.74	C
ATOM	1012	CB	PRO	129	15.375	-15.952	-34.253	1.00173.74	C
ATOM	1013	CG	PRO	129	14.244	-15.640	-35.253	1.00173.74	C
ATOM	1014	C	PRO	129	15.415	-15.299	-31.790	1.00173.74	C
ATOM	1015	O	PRO	129	15.310	-14.079	-31.673	1.00173.74	O
ATOM	1016	N	LEU	130	16.215	-16.058	-31.021	1.00245.98	N
ATOM	1017	CA	LEU	130	16.660	-15.611	-29.728	1.00245.98	C
ATOM	1018	CB	LEU	130	17.770	-16.505	-29.166	1.00245.98	C
ATOM	1019	CG	LEU	130	18.263	-16.048	-27.782	1.00245.98	C
ATOM	1020	CD1	LEU	130	17.162	-16.177	-26.718	1.00245.98	C
ATOM	1021	CD2	LEU	130	19.568	-16.759	-27.396	1.00245.98	C
ATOM	1022	C	LEU	130	17.214	-14.238	-29.740	1.00245.98	C
ATOM	1023	O	LEU	130	16.608	-13.335	-29.165	1.00245.98	O
ATOM	1024	N	HIS	131	18.322	-14.018	-30.455	1.00239.55	N
ATOM	1025	CA	HIS	131	18.894	-12.716	-30.503	1.00239.55	C
ATOM	1026	ND1	HIS	131	21.533	-10.526	-30.613	1.00239.55	N
ATOM	1027	CG	HIS	131	20.884	-11.324	-29.698	1.00239.55	C
ATOM	1028	CB	HIS	131	20.350	-12.695	-29.992	1.00239.55	C
ATOM	1029	NE2	HIS	131	21.484	-9.388	-28.702	1.00239.55	N
ATOM	1030	CD2	HIS	131	20.861	-10.612	-28.536	1.00239.55	C
ATOM	1031	CE1	HIS	131	21.872	-9.381	-29.965	1.00239.55	C
ATOM	1032	C	HIS	131	18.883	-12.451	-31.961	1.00239.55	C
ATOM	1033	O	HIS	131	18.267	-13.198	-32.718	1.00239.55	O
ATOM	1034	N	TYR	132	19.485	-11.354	-32.422	1.00173.57	N
ATOM	1035	CA	TYR	132	19.466	-11.248	-33.846	1.00173.57	C
ATOM	1036	CB	TYR	132	20.067	-9.929	-34.363	1.00173.57	C
ATOM	1037	CG	TYR	132	19.826	-9.892	-35.833	1.00173.57	C
ATOM	1038	CD1	TYR	132	18.578	-9.571	-36.312	1.00173.57	C
ATOM	1039	CD2	TYR	132	20.834	-10.169	-36.727	1.00173.57	C
ATOM	1040	CE1	TYR	132	18.331	-9.532	-37.663	1.00173.57	C
ATOM	1041	CE2	TYR	132	20.593	-10.132	-38.081	1.00173.57	C
ATOM	1042	CZ	TYR	132	19.340	-9.815	-38.549	1.00173.57	C
ATOM	1043	OH	TYR	132	19.090	-9.778	-39.936	1.00173.57	O

ATOM	1044	C	TYR	132	20.307	-12.379	-34.358	1.00173.57	C
ATOM	1045	O	TYR	132	19.885	-13.141	-35.226	1.00173.57	O
ATOM	1046	N	ILE	133	21.528	-12.520	-33.796	1.00122.24	N
ATOM	1047	CA	ILE	133	22.387	-13.611	-34.151	1.00122.24	C
ATOM	1048	CB	ILE	133	23.626	-13.186	-34.896	1.00122.24	C
ATOM	1049	CG2	ILE	133	24.344	-12.090	-34.092	1.00122.24	C
ATOM	1050	CG1	ILE	133	24.490	-14.408	-35.251	1.00122.24	C
ATOM	1051	CD1	ILE	133	25.601	-14.103	-36.256	1.00122.24	C
ATOM	1052	C	ILE	133	22.798	-14.287	-32.881	1.00122.24	C
ATOM	1053	O	ILE	133	23.510	-13.718	-32.054	1.00122.24	O
ATOM	1054	N	LEU	134	22.339	-15.537	-32.681	1.00146.65	N
ATOM	1055	CA	LEU	134	22.733	-16.201	-31.479	1.00146.65	C
ATOM	1056	CB	LEU	134	21.938	-15.699	-30.255	1.00146.65	C
ATOM	1057	CG	LEU	134	22.542	-16.015	-28.867	1.00146.65	C
ATOM	1058	CD1	LEU	134	22.579	-17.513	-28.551	1.00146.65	C
ATOM	1059	CD2	LEU	134	23.907	-15.329	-28.694	1.00146.65	C
ATOM	1060	C	LEU	134	22.438	-17.648	-31.715	1.00146.65	C
ATOM	1061	O	LEU	134	21.524	-17.991	-32.463	1.00146.65	O
ATOM	1062	N	ILE	135	23.233	-18.538	-31.099	1.00118.99	N
ATOM	1063	CA	ILE	135	23.049	-19.953	-31.243	1.00118.99	C
ATOM	1064	CB	ILE	135	24.208	-20.724	-30.690	1.00118.99	C
ATOM	1065	CG2	ILE	135	24.476	-20.204	-29.269	1.00118.99	C
ATOM	1066	CG1	ILE	135	23.994	-22.239	-30.851	1.00118.99	C
ATOM	1067	CD1	ILE	135	25.251	-23.072	-30.606	1.00118.99	C
ATOM	1068	C	ILE	135	21.790	-20.347	-30.538	1.00118.99	C
ATOM	1069	O	ILE	135	21.478	-19.843	-29.463	1.00118.99	O
ATOM	1070	N	MET	136	20.998	-21.244	-31.157	1.00121.97	N
ATOM	1071	CA	MET	136	19.748	-21.616	-30.560	1.00121.97	C
ATOM	1072	CB	MET	136	18.904	-22.567	-31.421	1.00121.97	C
ATOM	1073	CG	MET	136	17.569	-22.916	-30.757	1.00121.97	C
ATOM	1074	SD	MET	136	16.610	-24.212	-31.597	1.00121.97	S
ATOM	1075	CE	MET	136	17.689	-25.555	-31.026	1.00121.97	C
ATOM	1076	C	MET	136	19.967	-22.308	-29.253	1.00121.97	C
ATOM	1077	O	MET	136	19.262	-22.033	-28.283	1.00121.97	O
ATOM	1078	N	SER	137	20.946	-23.230	-29.189	1.00 87.78	N
ATOM	1079	CA	SER	137	21.123	-24.010	-27.998	1.00 87.78	C
ATOM	1080	CB	SER	137	22.104	-25.188	-28.182	1.00 87.78	C
ATOM	1081	OG	SER	137	22.226	-25.917	-26.970	1.00 87.78	O
ATOM	1082	C	SER	137	21.565	-23.170	-26.830	1.00 87.78	C
ATOM	1083	O	SER	137	20.962	-23.266	-25.762	1.00 87.78	O
ATOM	1084	N	PRO	138	22.566	-22.344	-26.946	1.00124.48	N
ATOM	1085	CA	PRO	138	22.940	-21.613	-25.767	1.00124.48	C
ATOM	1086	CD	PRO	138	23.743	-22.698	-27.726	1.00124.48	C
ATOM	1087	CB	PRO	138	24.333	-21.051	-26.038	1.00124.48	C
ATOM	1088	CG	PRO	138	24.949	-22.110	-26.970	1.00124.48	C
ATOM	1089	C	PRO	138	21.920	-20.634	-25.289	1.00124.48	C
ATOM	1090	O	PRO	138	21.944	-20.300	-24.106	1.00124.48	O
ATOM	1091	N	GLY	139	21.028	-20.139	-26.165	1.00 24.85	N
ATOM	1092	CA	GLY	139	20.053	-19.218	-25.668	1.00 24.85	C
ATOM	1093	C	GLY	139	19.213	-19.959	-24.687	1.00 24.85	C
ATOM	1094	O	GLY	139	18.930	-19.475	-23.594	1.00 24.85	O
ATOM	1095	N	LEU	140	18.788	-21.174	-25.068	1.00111.92	N
ATOM	1096	CA	LEU	140	17.957	-21.961	-24.213	1.00111.92	C
ATOM	1097	CB	LEU	140	17.456	-23.228	-24.943	1.00111.92	C
ATOM	1098	CG	LEU	140	16.685	-24.258	-24.091	1.00111.92	C
ATOM	1099	CD1	LEU	140	17.623	-25.095	-23.204	1.00111.92	C
ATOM	1100	CD2	LEU	140	15.555	-23.589	-23.294	1.00111.92	C
ATOM	1101	C	LEU	140	18.714	-22.374	-22.996	1.00111.92	C
ATOM	1102	O	LEU	140	18.250	-22.181	-21.873	1.00111.92	O
ATOM	1103	N	CYS	141	19.914	-22.952	-23.185	1.00127.41	N
ATOM	1104	CA	CYS	141	20.566	-23.500	-22.037	1.00127.41	C
ATOM	1105	CB	CYS	141	21.842	-24.281	-22.391	1.00127.41	C
ATOM	1106	SG	CYS	141	21.486	-25.773	-23.369	1.00127.41	S
ATOM	1107	C	CYS	141	20.936	-22.460	-21.039	1.00127.41	C
ATOM	1108	O	CYS	141	20.367	-22.399	-19.953	1.00127.41	O
ATOM	1109	N	ILE	142	21.888	-21.582	-21.389	1.00151.40	N
ATOM	1110	CA	ILE	142	22.344	-20.679	-20.378	1.00151.40	C
ATOM	1111	CB	ILE	142	23.592	-19.954	-20.791	1.00151.40	C
ATOM	1112	CG2	ILE	142	23.941	-18.929	-19.698	1.00151.40	C
ATOM	1113	CG1	ILE	142	24.717	-20.963	-21.062	1.00151.40	C
ATOM	1114	CD1	ILE	142	25.067	-21.812	-19.842	1.00151.40	C
ATOM	1115	C	ILE	142	21.318	-19.643	-20.075	1.00151.40	C
ATOM	1116	O	ILE	142	20.873	-19.497	-18.937	1.00151.40	O
ATOM	1117	N	PHE	143	20.893	-18.913	-21.120	1.00126.70	N
ATOM	1118	CA	PHE	143	20.058	-17.774	-20.901	1.00126.70	C
ATOM	1119	CB	PHE	143	19.903	-16.914	-22.170	1.00126.70	C
ATOM	1120	CG	PHE	143	19.183	-15.662	-21.800	1.00126.70	C

ATOM	1121	CD1	PHE	143	17.809	-15.629	-21.744	1.00126.70	C
ATOM	1122	CD2	PHE	143	19.886	-14.513	-21.510	1.00126.70	C
ATOM	1123	CE1	PHE	143	17.149	-14.472	-21.403	1.00126.70	C
ATOM	1124	CE2	PHE	143	19.231	-13.352	-21.169	1.00126.70	C
ATOM	1125	CZ	PHE	143	17.858	-13.331	-21.113	1.00126.70	C
ATOM	1126	C	PHE	143	18.687	-18.137	-20.436	1.00126.70	C
ATOM	1127	O	PHE	143	18.234	-17.666	-19.395	1.00126.70	O
ATOM	1128	N	LEU	144	17.999	-19.011	-21.192	1.00113.57	N
ATOM	1129	CA	LEU	144	16.611	-19.251	-20.926	1.00113.57	C
ATOM	1130	CB	LEU	144	15.958	-20.144	-22.004	1.00113.57	C
ATOM	1131	CG	LEU	144	14.423	-20.339	-21.908	1.00113.57	C
ATOM	1132	CD1	LEU	144	13.980	-21.172	-20.691	1.00113.57	C
ATOM	1133	CD2	LEU	144	13.695	-18.991	-22.010	1.00113.57	C
ATOM	1134	C	LEU	144	16.408	-19.919	-19.611	1.00113.57	C
ATOM	1135	O	LEU	144	15.659	-19.423	-18.771	1.00113.57	O
ATOM	1136	N	VAL	145	17.095	-21.050	-19.376	1.00105.06	N
ATOM	1137	CA	VAL	145	16.793	-21.756	-18.169	1.00105.06	C
ATOM	1138	CB	VAL	145	17.478	-23.084	-18.015	1.00105.06	C
ATOM	1139	CG1	VAL	145	17.179	-23.926	-19.268	1.00105.06	C
ATOM	1140	CG2	VAL	145	18.957	-22.878	-17.664	1.00105.06	C
ATOM	1141	C	VAL	145	17.196	-20.890	-17.033	1.00105.06	C
ATOM	1142	O	VAL	145	16.513	-20.831	-16.014	1.00105.06	O
ATOM	1143	N	SER	146	18.317	-20.169	-17.191	1.00 65.90	N
ATOM	1144	CA	SER	146	18.789	-19.356	-16.114	1.00 65.90	C
ATOM	1145	CB	SER	146	20.034	-18.538	-16.491	1.00 65.90	C
ATOM	1146	OG	SER	146	20.453	-17.749	-15.387	1.00 65.90	O
ATOM	1147	C	SER	146	17.717	-18.381	-15.740	1.00 65.90	C
ATOM	1148	O	SER	146	17.350	-18.271	-14.571	1.00 65.90	O
ATOM	1149	N	ALA	147	17.165	-17.658	-16.731	1.00 24.35	N
ATOM	1150	CA	ALA	147	16.174	-16.659	-16.448	1.00 24.35	C
ATOM	1151	CB	ALA	147	15.724	-15.900	-17.705	1.00 24.35	C
ATOM	1152	C	ALA	147	14.958	-17.307	-15.867	1.00 24.35	C
ATOM	1153	O	ALA	147	14.388	-16.826	-14.890	1.00 24.35	O
ATOM	1154	N	SER	148	14.538	-18.441	-16.452	1.00 26.48	N
ATOM	1155	CA	SER	148	13.345	-19.107	-16.018	1.00 26.48	C
ATOM	1156	CB	SER	148	13.024	-20.341	-16.874	1.00 26.48	C
ATOM	1157	OG	SER	148	12.680	-19.944	-18.194	1.00 26.48	O
ATOM	1158	C	SER	148	13.528	-19.569	-14.609	1.00 26.48	C
ATOM	1159	O	SER	148	12.599	-19.532	-13.805	1.00 26.48	O
ATOM	1160	N	TRP	149	14.759	-19.984	-14.273	1.00 55.70	N
ATOM	1161	CA	TRP	149	15.068	-20.532	-12.989	1.00 55.70	C
ATOM	1162	CB	TRP	149	16.525	-21.013	-12.881	1.00 55.70	C
ATOM	1163	CG	TRP	149	16.796	-22.258	-13.687	1.00 55.70	C
ATOM	1164	CD2	TRP	149	18.097	-22.838	-13.874	1.00 55.70	C
ATOM	1165	CD1	TRP	149	15.918	-23.053	-14.362	1.00 55.70	C
ATOM	1166	NE1	TRP	149	16.588	-24.097	-14.952	1.00 55.70	N
ATOM	1167	CE2	TRP	149	17.930	-23.977	-14.660	1.00 55.70	C
ATOM	1168	CE3	TRP	149	19.328	-22.454	-13.423	1.00 55.70	C
ATOM	1169	CZ2	TRP	149	18.996	-24.757	-15.009	1.00 55.70	C
ATOM	1170	CZ3	TRP	149	20.402	-23.240	-13.781	1.00 55.70	C
ATOM	1171	CH2	TRP	149	20.238	-24.369	-14.557	1.00 55.70	C
ATOM	1172	C	TRP	149	14.834	-19.518	-11.924	1.00 55.70	C
ATOM	1173	O	TRP	149	14.298	-19.860	-10.875	1.00 55.70	O
ATOM	1174	N	ILE	150	15.196	-18.244	-12.160	1.00 86.29	N
ATOM	1175	CA	ILE	150	15.100	-17.264	-11.113	1.00 86.29	C
ATOM	1176	CB	ILE	150	15.576	-15.899	-11.515	1.00 86.29	C
ATOM	1177	CG2	ILE	150	17.062	-16.009	-11.892	1.00 86.29	C
ATOM	1178	CG1	ILE	150	14.683	-15.316	-12.620	1.00 86.29	C
ATOM	1179	CD1	ILE	150	14.900	-13.821	-12.851	1.00 86.29	C
ATOM	1180	C	ILE	150	13.683	-17.116	-10.654	1.00 86.29	C
ATOM	1181	O	ILE	150	13.429	-17.042	-9.454	1.00 86.29	O
ATOM	1182	N	MET	151	12.713	-17.075	-11.586	1.00 61.10	N
ATOM	1183	CA	MET	151	11.349	-16.898	-11.172	1.00 61.10	C
ATOM	1184	CB	MET	151	10.361	-16.892	-12.350	1.00 61.10	C
ATOM	1185	CG	MET	151	8.925	-16.561	-11.941	1.00 61.10	C
ATOM	1186	SD	MET	151	7.738	-16.569	-13.316	1.00 61.10	S
ATOM	1187	CE	MET	151	8.513	-15.183	-14.197	1.00 61.10	C
ATOM	1188	C	MET	151	10.999	-18.067	-10.313	1.00 61.10	C
ATOM	1189	O	MET	151	10.341	-17.935	-9.282	1.00 61.10	O
ATOM	1190	N	ASN	152	11.470	-19.250	-10.733	1.00 66.51	N
ATOM	1191	CA	ASN	152	11.227	-20.491	-10.068	1.00 66.51	C
ATOM	1192	CB	ASN	152	11.855	-21.645	-10.839	1.00 66.51	C
ATOM	1193	CG	ASN	152	11.162	-21.548	-12.177	1.00 66.51	C
ATOM	1194	OD1	ASN	152	11.734	-21.846	-13.224	1.00 66.51	O
ATOM	1195	ND2	ASN	152	9.873	-21.120	-12.126	1.00 66.51	N
ATOM	1196	C	ASN	152	11.864	-20.417	-8.729	1.00 66.51	C
ATOM	1197	O	ASN	152	11.379	-20.996	-7.759	1.00 66.51	O

ATOM	1198	N	ALA	153	12.979	-19.680	-8.651	1.00	34.35	N
ATOM	1199	CA	ALA	153	13.699	-19.558	-7.433	1.00	34.35	C
ATOM	1200	CB	ALA	153	14.892	-18.593	-7.535	1.00	34.35	C
ATOM	1201	C	ALA	153	12.742	-18.979	-6.460	1.00	34.35	C
ATOM	1202	O	ALA	153	12.657	-19.455	-5.338	1.00	34.35	O
ATOM	1203	N	LEU	154	11.930	-18.002	-6.898	1.00	40.70	N
ATOM	1204	CA	LEU	154	11.036	-17.315	-6.010	1.00	40.70	C
ATOM	1205	CB	LEU	154	10.096	-16.359	-6.762	1.00	40.70	C
ATOM	1206	CG	LEU	154	10.804	-15.241	-7.550	1.00	40.70	C
ATOM	1207	CD1	LEU	154	9.781	-14.346	-8.267	1.00	40.70	C
ATOM	1208	CD2	LEU	154	11.765	-14.434	-6.664	1.00	40.70	C
ATOM	1209	C	LEU	154	10.160	-18.345	-5.375	1.00	40.70	C
ATOM	1210	O	LEU	154	9.888	-18.290	-4.177	1.00	40.70	O
ATOM	1211	N	HIS	155	9.708	-19.326	-6.173	1.00	98.85	N
ATOM	1212	CA	HIS	155	8.864	-20.355	-5.648	1.00	98.85	C
ATOM	1213	ND1	HIS	155	6.173	-20.496	-7.549	1.00	98.85	N
ATOM	1214	CG	HIS	155	7.503	-20.783	-7.757	1.00	98.85	C
ATOM	1215	CB	HIS	155	8.405	-21.366	-6.712	1.00	98.85	C
ATOM	1216	NE2	HIS	155	6.617	-19.956	-9.660	1.00	98.85	N
ATOM	1217	CD2	HIS	155	7.760	-20.446	-9.051	1.00	98.85	C
ATOM	1218	CE1	HIS	155	5.691	-20.005	-8.719	1.00	98.85	C
ATOM	1219	C	HIS	155	9.638	-21.132	-4.631	1.00	98.85	C
ATOM	1220	O	HIS	155	9.100	-21.527	-3.599	1.00	98.85	O
ATOM	1221	N	SER	156	10.921	-21.405	-4.936	1.00	67.16	N
ATOM	1222	CA	SER	156	11.794	-22.192	-4.108	1.00	67.16	C
ATOM	1223	CB	SER	156	12.971	-22.792	-4.902	1.00	67.16	C
ATOM	1224	OG	SER	156	13.763	-21.772	-5.489	1.00	67.16	O
ATOM	1225	C	SER	156	12.353	-21.441	-2.919	1.00	67.16	C
ATOM	1226	O	SER	156	12.879	-22.074	-2.005	1.00	67.16	O
ATOM	1227	N	LEU	157	12.263	-20.095	-2.865	1.00	111.09	N
ATOM	1228	CA	LEU	157	12.926	-19.357	-1.817	1.00	111.09	C
ATOM	1229	CB	LEU	157	12.881	-17.815	-1.902	1.00	111.09	C
ATOM	1230	CG	LEU	157	14.008	-17.138	-2.713	1.00	111.09	C
ATOM	1231	CD1	LEU	157	13.854	-17.283	-4.225	1.00	111.09	C
ATOM	1232	CD2	LEU	157	14.182	-15.673	-2.290	1.00	111.09	C
ATOM	1233	C	LEU	157	12.416	-19.683	-0.456	1.00	111.09	C
ATOM	1234	O	LEU	157	13.201	-19.757	0.487	1.00	111.09	O
ATOM	1235	N	LEU	158	11.103	-19.905	-0.300	1.00	90.87	N
ATOM	1236	CA	LEU	158	10.576	-20.084	1.022	1.00	90.87	C
ATOM	1237	CB	LEU	158	9.059	-20.315	1.039	1.00	90.87	C
ATOM	1238	CG	LEU	158	8.263	-19.075	0.587	1.00	90.87	C
ATOM	1239	CD1	LEU	158	8.586	-18.704	-0.869	1.00	90.87	C
ATOM	1240	CD2	LEU	158	6.756	-19.256	0.829	1.00	90.87	C
ATOM	1241	C	LEU	158	11.241	-21.245	1.687	1.00	90.87	C
ATOM	1242	O	LEU	158	11.538	-21.191	2.879	1.00	90.87	O
ATOM	1243	N	HIS	159	11.535	-22.313	0.929	1.00	84.37	N
ATOM	1244	CA	HIS	159	12.098	-23.487	1.526	1.00	84.37	C
ATOM	1245	ND1	HIS	159	14.707	-25.552	0.676	1.00	84.37	N
ATOM	1246	CG	HIS	159	13.792	-24.720	0.074	1.00	84.37	C
ATOM	1247	CB	HIS	159	12.363	-24.622	0.519	1.00	84.37	C
ATOM	1248	NE2	HIS	159	15.788	-24.501	-0.956	1.00	84.37	N
ATOM	1249	CD2	HIS	159	14.468	-24.085	-0.922	1.00	84.37	C
ATOM	1250	CE1	HIS	159	15.884	-25.382	0.022	1.00	84.37	C
ATOM	1251	C	HIS	159	13.398	-23.132	2.161	1.00	84.37	C
ATOM	1252	O	HIS	159	13.697	-23.623	3.249	1.00	84.37	O
ATOM	1253	N	THR	160	14.214	-22.276	1.510	1.00	51.54	N
ATOM	1254	CA	THR	160	15.466	-21.968	2.129	1.00	51.54	C
ATOM	1255	CB	THR	160	16.306	-21.000	1.343	1.00	51.54	C
ATOM	1256	OG1	THR	160	15.658	-19.741	1.256	1.00	51.54	O
ATOM	1257	CG2	THR	160	16.535	-21.568	-0.067	1.00	51.54	C
ATOM	1258	C	THR	160	15.178	-21.355	3.465	1.00	51.54	C
ATOM	1259	O	THR	160	15.706	-21.809	4.479	1.00	51.54	O
ATOM	1260	N	LEU	161	14.351	-20.294	3.525	1.00	134.39	N
ATOM	1261	CA	LEU	161	14.142	-19.800	4.851	1.00	134.39	C
ATOM	1262	CB	LEU	161	13.614	-18.357	4.864	1.00	134.39	C
ATOM	1263	CG	LEU	161	14.645	-17.358	4.302	1.00	134.39	C
ATOM	1264	CD1	LEU	161	14.872	-17.561	2.797	1.00	134.39	C
ATOM	1265	CD2	LEU	161	14.280	-15.910	4.654	1.00	134.39	C
ATOM	1266	C	LEU	161	13.229	-20.644	5.709	1.00	134.39	C
ATOM	1267	O	LEU	161	13.689	-21.358	6.598	1.00	134.39	O
ATOM	1268	N	LEU	162	11.897	-20.550	5.461	1.00	159.59	N
ATOM	1269	CA	LEU	162	10.867	-21.178	6.263	1.00	159.59	C
ATOM	1270	CB	LEU	162	9.580	-20.333	6.308	1.00	159.59	C
ATOM	1271	CG	LEU	162	9.767	-18.992	7.045	1.00	159.59	C
ATOM	1272	CD1	LEU	162	10.807	-18.099	6.346	1.00	159.59	C
ATOM	1273	CD2	LEU	162	8.423	-18.277	7.251	1.00	159.59	C
ATOM	1274	C	LEU	162	10.453	-22.595	5.950	1.00	159.59	C

ATOM	1275	O	LEU	162	10.406	-23.447	6.837	1.00159.59	O
ATOM	1276	N	MET	163	10.154	-22.883	4.666	1.00 91.36	N
ATOM	1277	CA	MET	163	9.486	-24.103	4.290	1.00 91.36	C
ATOM	1278	CB	MET	163	8.847	-24.078	2.887	1.00 91.36	C
ATOM	1279	CG	MET	163	7.724	-23.061	2.694	1.00 91.36	C
ATOM	1280	SD	MET	163	6.736	-23.330	1.190	1.00 91.36	S
ATOM	1281	CE	MET	163	8.127	-23.182	0.032	1.00 91.36	C
ATOM	1282	C	MET	163	10.395	-25.281	4.282	1.00 91.36	C
ATOM	1283	O	MET	163	11.607	-25.177	4.465	1.00 91.36	O
ATOM	1284	N	ASN	164	9.779	-26.471	4.113	1.00108.11	N
ATOM	1285	CA	ASN	164	10.571	-27.650	3.981	1.00108.11	C
ATOM	1286	CB	ASN	164	11.629	-27.557	2.862	1.00108.11	C
ATOM	1287	CG	ASN	164	10.939	-27.322	1.527	1.00108.11	C
ATOM	1288	OD1	ASN	164	9.968	-26.572	1.446	1.00108.11	O
ATOM	1289	ND2	ASN	164	11.445	-27.987	0.454	1.00108.11	N
ATOM	1290	C	ASN	164	11.330	-27.794	5.246	1.00108.11	C
ATOM	1291	O	ASN	164	11.010	-27.172	6.258	1.00108.11	O
ATOM	1292	N	SER	165	12.350	-28.668	5.226	1.00 68.96	N
ATOM	1293	CA	SER	165	13.133	-28.781	6.408	1.00 68.96	C
ATOM	1294	CB	SER	165	12.516	-29.724	7.456	1.00 68.96	C
ATOM	1295	OG	SER	165	12.363	-31.026	6.913	1.00 68.96	O
ATOM	1296	C	SER	165	14.493	-29.289	6.064	1.00 68.96	C
ATOM	1297	O	SER	165	14.709	-29.954	5.052	1.00 68.96	O
ATOM	1298	N	LEU	166	15.452	-28.891	6.915	1.00176.00	N
ATOM	1299	CA	LEU	166	16.829	-29.277	6.957	1.00176.00	C
ATOM	1300	CB	LEU	166	17.628	-28.389	7.927	1.00176.00	C
ATOM	1301	CG	LEU	166	19.093	-28.815	8.129	1.00176.00	C
ATOM	1302	CD1	LEU	166	19.886	-28.718	6.818	1.00176.00	C
ATOM	1303	CD2	LEU	166	19.744	-28.037	9.287	1.00176.00	C
ATOM	1304	C	LEU	166	16.875	-30.673	7.484	1.00176.00	C
ATOM	1305	O	LEU	166	17.845	-31.399	7.269	1.00176.00	O
ATOM	1306	N	SER	167	15.806	-31.050	8.215	1.00130.20	N
ATOM	1307	CA	SER	167	15.691	-32.268	8.965	1.00130.20	C
ATOM	1308	CB	SER	167	14.244	-32.635	9.338	1.00130.20	C
ATOM	1309	OG	SER	167	13.521	-33.005	8.174	1.00130.20	O
ATOM	1310	C	SER	167	16.279	-33.421	8.231	1.00130.20	C
ATOM	1311	O	SER	167	16.306	-33.474	7.003	1.00130.20	O
ATOM	1312	N	PHE	168	16.805	-34.366	9.033	1.00196.31	N
ATOM	1313	CA	PHE	168	17.511	-35.530	8.600	1.00196.31	C
ATOM	1314	CB	PHE	168	18.396	-36.100	9.719	1.00196.31	C
ATOM	1315	CG	PHE	168	17.465	-36.671	10.736	1.00196.31	C
ATOM	1316	CD1	PHE	168	16.831	-35.850	11.638	1.00196.31	C
ATOM	1317	CD2	PHE	168	17.198	-38.023	10.770	1.00196.31	C
ATOM	1318	CE1	PHE	168	15.963	-36.367	12.571	1.00196.31	C
ATOM	1319	CE2	PHE	168	16.332	-38.546	11.701	1.00196.31	C
ATOM	1320	CZ	PHE	168	15.712	-37.718	12.605	1.00196.31	C
ATOM	1321	C	PHE	168	16.534	-36.610	8.269	1.00196.31	C
ATOM	1322	O	PHE	168	15.412	-36.643	8.772	1.00196.31	O
ATOM	1323	N	CYS	169	16.971	-37.502	7.363	1.00137.48	N
ATOM	1324	CA	CYS	169	16.306	-38.703	6.957	1.00137.48	C
ATOM	1325	CB	CYS	169	15.151	-38.477	5.966	1.00137.48	C
ATOM	1326	SG	CYS	169	14.198	-39.983	5.598	1.00137.48	S
ATOM	1327	C	CYS	169	17.403	-39.417	6.250	1.00137.48	C
ATOM	1328	O	CYS	169	18.566	-39.126	6.517	1.00137.48	O
ATOM	1329	N	ALA	170	17.105	-40.406	5.384	1.00112.90	N
ATOM	1330	CA	ALA	170	18.232	-40.907	4.658	1.00112.90	C
ATOM	1331	CB	ALA	170	17.864	-42.024	3.669	1.00112.90	C
ATOM	1332	C	ALA	170	18.692	-39.717	3.858	1.00112.90	C
ATOM	1333	O	ALA	170	19.846	-39.305	3.941	1.00112.90	O
ATOM	1334	N	ASN	171	17.740	-39.119	3.108	1.00177.44	N
ATOM	1335	CA	ASN	171	17.787	-37.881	2.388	1.00177.44	C
ATOM	1336	CB	ASN	171	18.383	-37.995	0.978	1.00177.44	C
ATOM	1337	CG	ASN	171	19.873	-38.258	1.123	1.00177.44	C
ATOM	1338	OD1	ASN	171	20.389	-39.264	0.639	1.00177.44	O
ATOM	1339	ND2	ASN	171	20.586	-37.333	1.818	1.00177.44	N
ATOM	1340	C	ASN	171	16.337	-37.640	2.224	1.00177.44	C
ATOM	1341	O	ASN	171	15.867	-37.530	1.098	1.00177.44	O
ATOM	1342	N	HIS	172	15.593	-37.550	3.343	1.00215.80	N
ATOM	1343	CA	HIS	172	14.159	-37.520	3.263	1.00215.80	C
ATOM	1344	ND1	HIS	172	12.310	-34.912	4.345	1.00215.80	N
ATOM	1345	CG	HIS	172	13.427	-35.111	3.563	1.00215.80	C
ATOM	1346	CB	HIS	172	13.566	-36.259	2.608	1.00215.80	C
ATOM	1347	NE2	HIS	172	13.730	-33.275	4.838	1.00215.80	N
ATOM	1348	CD2	HIS	172	14.284	-34.101	3.875	1.00215.80	C
ATOM	1349	CE1	HIS	172	12.545	-33.802	5.088	1.00215.80	C
ATOM	1350	C	HIS	172	13.803	-38.705	2.434	1.00215.80	C
ATOM	1351	O	HIS	172	12.921	-38.644	1.580	1.00215.80	O

ATOM	1352	N	GLU	173	14.504	-39.827	2.674	1.00247.98	N
ATOM	1353	CA	GLU	173	14.327	-40.963	1.827	1.00247.98	C
ATOM	1354	CB	GLU	173	15.463	-41.990	1.953	1.00247.98	C
ATOM	1355	CG	GLU	173	15.561	-42.957	0.771	1.00247.98	C
ATOM	1356	CD	GLU	173	16.319	-42.234	-0.334	1.00247.98	C
ATOM	1357	OE1	GLU	173	16.529	-41.000	-0.187	1.00247.98	O
ATOM	1358	OE2	GLU	173	16.704	-42.900	-1.333	1.00247.98	O
ATOM	1359	C	GLU	173	13.069	-41.647	2.222	1.00247.98	C
ATOM	1360	O	GLU	173	13.010	-42.312	3.252	1.00247.98	O
ATOM	1361	N	ILE	174	12.020	-41.475	1.402	1.00176.42	N
ATOM	1362	CA	ILE	174	10.756	-42.118	1.606	1.00176.42	C
ATOM	1363	CB	ILE	174	9.695	-41.258	2.225	1.00176.42	C
ATOM	1364	CG2	ILE	174	10.249	-40.741	3.561	1.00176.42	C
ATOM	1365	CG1	ILE	174	9.247	-40.151	1.258	1.00176.42	C
ATOM	1366	CD1	ILE	174	10.380	-39.263	0.764	1.00176.42	C
ATOM	1367	C	ILE	174	10.312	-42.379	0.219	1.00176.42	C
ATOM	1368	O	ILE	174	11.111	-42.212	-0.701	1.00176.42	O
ATOM	1369	N	PRO	175	9.109	-42.822	0.002	1.00189.06	N
ATOM	1370	CA	PRO	175	8.711	-42.953	-1.358	1.00189.06	C
ATOM	1371	CD	PRO	175	8.432	-43.771	0.867	1.00189.06	C
ATOM	1372	CB	PRO	175	7.355	-43.651	-1.329	1.00189.06	C
ATOM	1373	CG	PRO	175	7.453	-44.526	-0.059	1.00189.06	C
ATOM	1374	C	PRO	175	8.754	-41.582	-1.935	1.00189.06	C
ATOM	1375	O	PRO	175	7.958	-40.731	-1.540	1.00189.06	O
ATOM	1376	N	HIS	176	9.699	-41.364	-2.861	1.00275.87	N
ATOM	1377	CA	HIS	176	9.881	-40.103	-3.501	1.00275.87	C
ATOM	1378	ND1	HIS	176	10.351	-36.605	-3.505	1.00275.87	N
ATOM	1379	CG	HIS	176	9.440	-37.623	-3.338	1.00275.87	C
ATOM	1380	CB	HIS	176	9.705	-38.892	-2.583	1.00275.87	C
ATOM	1381	NE2	HIS	176	8.456	-35.926	-4.454	1.00275.87	N
ATOM	1382	CD2	HIS	176	8.290	-37.192	-3.927	1.00275.87	C
ATOM	1383	CE1	HIS	176	9.708	-35.614	-4.174	1.00275.87	C
ATOM	1384	C	HIS	176	11.289	-40.133	-3.971	1.00275.87	C
ATOM	1385	O	HIS	176	12.007	-41.098	-3.714	1.00275.87	O
ATOM	1386	N	PHE	177	11.730	-39.086	-4.684	1.00165.94	N
ATOM	1387	CA	PHE	177	13.040	-39.180	-5.245	1.00165.94	C
ATOM	1388	CB	PHE	177	13.387	-37.938	-6.064	1.00165.94	C
ATOM	1389	CG	PHE	177	12.188	-37.582	-6.879	1.00165.94	C
ATOM	1390	CD1	PHE	177	11.770	-38.303	-7.977	1.00165.94	C
ATOM	1391	CD2	PHE	177	11.436	-36.504	-6.481	1.00165.94	C
ATOM	1392	CE1	PHE	177	10.637	-37.912	-8.663	1.00165.94	C
ATOM	1393	CE2	PHE	177	10.309	-36.110	-7.160	1.00165.94	C
ATOM	1394	CZ	PHE	177	9.906	-36.817	-8.265	1.00165.94	C
ATOM	1395	C	PHE	177	14.057	-39.269	-4.144	1.00165.94	C
ATOM	1396	O	PHE	177	14.735	-40.284	-4.002	1.00165.94	O
ATOM	1397	N	PHE	178	14.111	-38.221	-3.291	1.00190.63	N
ATOM	1398	CA	PHE	178	15.065	-38.062	-2.222	1.00190.63	C
ATOM	1399	CB	PHE	178	16.459	-37.573	-2.641	1.00190.63	C
ATOM	1400	CG	PHE	178	17.304	-38.781	-2.855	1.00190.63	C
ATOM	1401	CD1	PHE	178	17.335	-39.460	-4.051	1.00190.63	C
ATOM	1402	CD2	PHE	178	18.085	-39.231	-1.815	1.00190.63	C
ATOM	1403	CE1	PHE	178	18.122	-40.578	-4.192	1.00190.63	C
ATOM	1404	CE2	PHE	178	18.876	-40.345	-1.952	1.00190.63	C
ATOM	1405	CZ	PHE	178	18.894	-41.022	-3.146	1.00190.63	C
ATOM	1406	C	PHE	178	14.505	-37.109	-1.219	1.00190.63	C
ATOM	1407	O	PHE	178	13.456	-37.416	-0.656	1.00190.63	O
ATOM	1408	N	CYS	179	15.229	-35.990	-0.903	1.00159.87	N
ATOM	1409	CA	CYS	179	14.707	-35.013	0.029	1.00159.87	C
ATOM	1410	CB	CYS	179	15.509	-33.683	0.135	1.00159.87	C
ATOM	1411	SG	CYS	179	14.640	-32.375	1.082	1.00159.87	S
ATOM	1412	C	CYS	179	13.352	-34.709	-0.504	1.00159.87	C
ATOM	1413	O	CYS	179	13.177	-34.076	-1.540	1.00159.87	O
ATOM	1414	N	ASP	180	12.354	-35.219	0.224	1.00137.76	N
ATOM	1415	CA	ASP	180	10.994	-35.280	-0.193	1.00137.76	C
ATOM	1416	CB	ASP	180	10.247	-36.327	0.659	1.00137.76	C
ATOM	1417	CG	ASP	180	8.842	-36.653	0.166	1.00137.76	C
ATOM	1418	OD1	ASP	180	8.518	-36.422	-1.027	1.00137.76	O
ATOM	1419	OD2	ASP	180	8.059	-37.161	1.012	1.00137.76	O
ATOM	1420	C	ASP	180	10.298	-33.981	-0.003	1.00137.76	C
ATOM	1421	O	ASP	180	10.766	-33.064	0.670	1.00137.76	O
ATOM	1422	N	ILE	181	9.120	-33.920	-0.643	1.00145.15	N
ATOM	1423	CA	ILE	181	8.158	-32.876	-0.553	1.00145.15	C
ATOM	1424	CB	ILE	181	6.845	-33.276	-1.150	1.00145.15	C
ATOM	1425	CG2	ILE	181	7.048	-33.506	-2.658	1.00145.15	C
ATOM	1426	CG1	ILE	181	6.306	-34.500	-0.386	1.00145.15	C
ATOM	1427	CD1	ILE	181	4.879	-34.904	-0.753	1.00145.15	C
ATOM	1428	C	ILE	181	7.943	-32.653	0.901	1.00145.15	C

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ATOM	1429	O	ILE	181	8.210	-33.530	1.720	1.00145.15	O
ATOM	1430	N	ASN	182	7.485	-31.441	1.253	1.00 86.48	N
ATOM	1431	CA	ASN	182	7.329	-31.058	2.621	1.00 86.48	C
ATOM	1432	CB	ASN	182	6.661	-29.686	2.758	1.00 86.48	C
ATOM	1433	CG	ASN	182	7.662	-28.742	2.118	1.00 86.48	C
ATOM	1434	OD1	ASN	182	8.866	-28.975	2.202	1.00 86.48	O
ATOM	1435	ND2	ASN	182	7.167	-27.664	1.452	1.00 86.48	N
ATOM	1436	C	ASN	182	6.545	-32.089	3.362	1.00 86.48	C
ATOM	1437	O	ASN	182	5.477	-32.553	2.962	1.00 86.48	O
ATOM	1438	N	PRO	183	7.163	-32.481	4.440	1.00115.13	N
ATOM	1439	CA	PRO	183	6.611	-33.492	5.299	1.00115.13	C
ATOM	1440	CD	PRO	183	8.614	-32.458	4.502	1.00115.13	C
ATOM	1441	CB	PRO	183	7.777	-34.031	6.134	1.00115.13	C
ATOM	1442	CG	PRO	183	8.935	-33.049	5.882	1.00115.13	C
ATOM	1443	C	PRO	183	5.430	-33.104	6.122	1.00115.13	C
ATOM	1444	O	PRO	183	4.661	-33.988	6.495	1.00115.13	O
ATOM	1445	N	LEU	184	5.249	-31.813	6.435	1.00 63.45	N
ATOM	1446	CA	LEU	184	4.161	-31.510	7.310	1.00 63.45	C
ATOM	1447	CB	LEU	184	4.589	-30.757	8.581	1.00 63.45	C
ATOM	1448	CG	LEU	184	5.565	-31.565	9.462	1.00 63.45	C
ATOM	1449	CD1	LEU	184	5.934	-30.806	10.746	1.00 63.45	C
ATOM	1450	CD2	LEU	184	5.034	-32.980	9.739	1.00 63.45	C
ATOM	1451	C	LEU	184	3.184	-30.665	6.575	1.00 63.45	C
ATOM	1452	O	LEU	184	3.499	-30.050	5.559	1.00 63.45	O
ATOM	1453	N	LEU	185	1.931	-30.672	7.050	1.00 80.97	N
ATOM	1454	CA	LEU	185	0.934	-29.870	6.423	1.00 80.97	C
ATOM	1455	CB	LEU	185	-0.457	-30.174	6.999	1.00 80.97	C
ATOM	1456	CG	LEU	185	-0.888	-31.629	6.733	1.00 80.97	C
ATOM	1457	CD1	LEU	185	-2.370	-31.847	7.073	1.00 80.97	C
ATOM	1458	CD2	LEU	185	-0.524	-32.075	5.307	1.00 80.97	C
ATOM	1459	C	LEU	185	1.292	-28.434	6.653	1.00 80.97	C
ATOM	1460	O	LEU	185	1.313	-27.624	5.727	1.00 80.97	O
ATOM	1461	N	SER	186	1.636	-28.101	7.912	1.00184.68	N
ATOM	1462	CA	SER	186	1.966	-26.752	8.266	1.00184.68	C
ATOM	1463	CB	SER	186	3.254	-26.217	7.619	1.00184.68	C
ATOM	1464	OG	SER	186	4.375	-26.968	8.061	1.00184.68	O
ATOM	1465	C	SER	186	0.825	-25.912	7.810	1.00184.68	C
ATOM	1466	O	SER	186	1.014	-24.771	7.390	1.00184.68	O
ATOM	1467	N	LEU	187	-0.393	-26.489	7.855	1.00264.73	N
ATOM	1468	CA	LEU	187	-1.561	-25.753	7.479	1.00264.73	C
ATOM	1469	CB	LEU	187	-2.805	-26.602	7.137	1.00264.73	C
ATOM	1470	CG	LEU	187	-2.836	-27.168	5.702	1.00264.73	C
ATOM	1471	CD1	LEU	187	-3.030	-26.040	4.679	1.00264.73	C
ATOM	1472	CD2	LEU	187	-1.608	-28.020	5.376	1.00264.73	C
ATOM	1473	C	LEU	187	-1.930	-24.865	8.609	1.00264.73	C
ATOM	1474	O	LEU	187	-1.813	-25.222	9.781	1.00264.73	O
ATOM	1475	N	SER	188	-2.373	-23.653	8.253	1.00209.70	N
ATOM	1476	CA	SER	188	-2.794	-22.688	9.212	1.00209.70	C
ATOM	1477	CB	SER	188	-1.637	-21.906	9.861	1.00209.70	C
ATOM	1478	OG	SER	188	-0.806	-22.781	10.610	1.00209.70	O
ATOM	1479	C	SER	188	-3.581	-21.714	8.417	1.00209.70	C
ATOM	1480	O	SER	188	-3.835	-21.928	7.233	1.00209.70	O
ATOM	1481	N	CYS	189	-4.005	-20.615	9.054	1.00133.23	N
ATOM	1482	CA	CYS	189	-4.703	-19.628	8.299	1.00133.23	C
ATOM	1483	CB	CYS	189	-5.108	-18.409	9.145	1.00133.23	C
ATOM	1484	SG	CYS	189	-6.001	-17.151	8.184	1.00133.23	S
ATOM	1485	C	CYS	189	-3.703	-19.182	7.294	1.00133.23	C
ATOM	1486	O	CYS	189	-4.026	-18.878	6.145	1.00133.23	O
ATOM	1487	N	THR	190	-2.430	-19.163	7.729	1.00288.36	N
ATOM	1488	CA	THR	190	-1.352	-18.717	6.913	1.00288.36	C
ATOM	1489	CB	THR	190	-1.075	-17.247	7.114	1.00288.36	C
ATOM	1490	OG1	THR	190	-0.001	-16.819	6.291	1.00288.36	O
ATOM	1491	CG2	THR	190	-0.825	-16.935	8.601	1.00288.36	C
ATOM	1492	C	THR	190	-0.170	-19.551	7.263	1.00288.36	C
ATOM	1493	O	THR	190	-0.226	-20.777	7.172	1.00288.36	O
ATOM	1494	N	ASP	191	0.942	-18.904	7.655	1.00204.38	N
ATOM	1495	CA	ASP	191	2.123	-19.630	7.973	1.00204.38	C
ATOM	1496	CB	ASP	191	1.888	-20.833	8.908	1.00204.38	C
ATOM	1497	CG	ASP	191	1.735	-20.251	10.302	1.00204.38	C
ATOM	1498	OD1	ASP	191	2.454	-19.258	10.597	1.00204.38	O
ATOM	1499	OD2	ASP	191	0.910	-20.783	11.090	1.00204.38	O
ATOM	1500	C	ASP	191	2.713	-20.038	6.673	1.00204.38	C
ATOM	1501	O	ASP	191	2.260	-19.595	5.620	1.00204.38	O
ATOM	1502	N	PRO	192	3.726	-20.843	6.702	1.00188.91	N
ATOM	1503	CA	PRO	192	4.363	-21.155	5.460	1.00188.91	C
ATOM	1504	CD	PRO	192	4.694	-20.791	7.791	1.00188.91	C
ATOM	1505	CB	PRO	192	5.690	-21.815	5.825	1.00188.91	C

ATOM	1506	CG	PRO	192	6.052	-21.152	7.165	1.00188.91	C
ATOM	1507	C	PRO	192	3.570	-21.905	4.444	1.00188.91	C
ATOM	1508	O	PRO	192	3.936	-21.803	3.274	1.00188.91	O
ATOM	1509	N	PHE	193	2.488	-22.621	4.819	1.00226.41	N
ATOM	1510	CA	PHE	193	1.829	-23.414	3.818	1.00226.41	C
ATOM	1511	CB	PHE	193	1.147	-22.614	2.692	1.00226.41	C
ATOM	1512	CG	PHE	193	-0.193	-22.160	3.157	1.00226.41	C
ATOM	1513	CD1	PHE	193	-1.255	-23.035	3.116	1.00226.41	C
ATOM	1514	CD2	PHE	193	-0.397	-20.880	3.615	1.00226.41	C
ATOM	1515	CE1	PHE	193	-2.504	-22.643	3.532	1.00226.41	C
ATOM	1516	CE2	PHE	193	-1.644	-20.481	4.033	1.00226.41	C
ATOM	1517	CZ	PHE	193	-2.697	-21.364	3.992	1.00226.41	C
ATOM	1518	C	PHE	193	2.848	-24.304	3.185	1.00226.41	C
ATOM	1519	O	PHE	193	2.955	-24.394	1.965	1.00226.41	O
ATOM	1520	N	THR	194	3.637	-24.994	4.018	1.00141.03	N
ATOM	1521	CA	THR	194	4.665	-25.852	3.518	1.00141.03	C
ATOM	1522	CB	THR	194	5.436	-26.505	4.626	1.00141.03	C
ATOM	1523	OG1	THR	194	6.601	-27.137	4.123	1.00141.03	O
ATOM	1524	CG2	THR	194	4.526	-27.528	5.312	1.00141.03	C
ATOM	1525	C	THR	194	3.985	-26.901	2.696	1.00141.03	C
ATOM	1526	O	THR	194	4.528	-27.398	1.710	1.00141.03	O
ATOM	1527	N	ASN	195	2.736	-27.217	3.072	1.00107.78	N
ATOM	1528	CA	ASN	195	1.932	-28.224	2.448	1.00107.78	C
ATOM	1529	CB	ASN	195	0.508	-28.274	3.027	1.00107.78	C
ATOM	1530	CG	ASN	195	-0.233	-29.445	2.399	1.00107.78	C
ATOM	1531	OD1	ASN	195	-0.028	-30.599	2.772	1.00107.78	O
ATOM	1532	ND2	ASN	195	-1.127	-29.137	1.422	1.00107.78	N
ATOM	1533	C	ASN	195	1.819	-27.894	0.992	1.00107.78	C
ATOM	1534	O	ASN	195	1.573	-28.773	0.172	1.00107.78	O
ATOM	1535	N	GLU	196	2.013	-26.613	0.631	1.00105.84	N
ATOM	1536	CA	GLU	196	1.835	-26.125	-0.708	1.00105.84	C
ATOM	1537	CB	GLU	196	2.216	-24.635	-0.869	1.00105.84	C
ATOM	1538	CG	GLU	196	1.334	-23.643	-0.100	1.00105.84	C
ATOM	1539	CD	GLU	196	-0.119	-23.861	-0.494	1.00105.84	C
ATOM	1540	OE1	GLU	196	-0.684	-24.914	-0.099	1.00105.84	O
ATOM	1541	OE2	GLU	196	-0.682	-22.980	-1.197	1.00105.84	O
ATOM	1542	C	GLU	196	2.684	-26.879	-1.689	1.00105.84	C
ATOM	1543	O	GLU	196	2.266	-27.046	-2.830	1.00105.84	O
ATOM	1544	N	LEU	197	3.889	-27.353	-1.316	1.00 62.85	N
ATOM	1545	CA	LEU	197	4.719	-27.960	-2.324	1.00 62.85	C
ATOM	1546	CB	LEU	197	6.092	-28.437	-1.827	1.00 62.85	C
ATOM	1547	CG	LEU	197	6.916	-29.061	-2.969	1.00 62.85	C
ATOM	1548	CD1	LEU	197	7.155	-28.041	-4.092	1.00 62.85	C
ATOM	1549	CD2	LEU	197	8.223	-29.684	-2.455	1.00 62.85	C
ATOM	1550	C	LEU	197	4.024	-29.138	-2.929	1.00 62.85	C
ATOM	1551	O	LEU	197	4.096	-29.346	-4.139	1.00 62.85	O
ATOM	1552	N	VAL	198	3.332	-29.955	-2.121	1.00113.52	N
ATOM	1553	CA	VAL	198	2.672	-31.063	-2.737	1.00113.52	C
ATOM	1554	CB	VAL	198	1.977	-31.967	-1.754	1.00113.52	C
ATOM	1555	CG1	VAL	198	3.039	-32.609	-0.853	1.00113.52	C
ATOM	1556	CG2	VAL	198	0.923	-31.172	-0.971	1.00113.52	C
ATOM	1557	C	VAL	198	1.648	-30.532	-3.692	1.00113.52	C
ATOM	1558	O	VAL	198	1.532	-31.017	-4.814	1.00113.52	O
ATOM	1559	N	ILE	199	0.844	-29.538	-3.272	1.00 77.94	N
ATOM	1560	CA	ILE	199	-0.201	-29.089	-4.143	1.00 77.94	C
ATOM	1561	CB	ILE	199	-1.257	-28.314	-3.402	1.00 77.94	C
ATOM	1562	CG2	ILE	199	-1.861	-29.258	-2.354	1.00 77.94	C
ATOM	1563	CG1	ILE	199	-0.692	-27.028	-2.777	1.00 77.94	C
ATOM	1564	CD1	ILE	199	-1.780	-26.045	-2.353	1.00 77.94	C
ATOM	1565	C	ILE	199	0.242	-28.254	-5.317	1.00 77.94	C
ATOM	1566	O	ILE	199	-0.029	-28.605	-6.463	1.00 77.94	O
ATOM	1567	N	PHE	200	0.940	-27.126	-5.068	1.00166.11	N
ATOM	1568	CA	PHE	200	1.197	-26.192	-6.128	1.00166.11	C
ATOM	1569	CB	PHE	200	1.702	-24.831	-5.615	1.00166.11	C
ATOM	1570	CG	PHE	200	1.713	-23.900	-6.778	1.00166.11	C
ATOM	1571	CD1	PHE	200	0.546	-23.298	-7.189	1.00166.11	C
ATOM	1572	CD2	PHE	200	2.877	-23.624	-7.459	1.00166.11	C
ATOM	1573	CE1	PHE	200	0.534	-22.437	-8.258	1.00166.11	C
ATOM	1574	CE2	PHE	200	2.873	-22.762	-8.531	1.00166.11	C
ATOM	1575	CZ	PHE	200	1.701	-22.167	-8.932	1.00166.11	C
ATOM	1576	C	PHE	200	2.173	-26.676	-7.151	1.00166.11	C
ATOM	1577	O	PHE	200	1.824	-26.818	-8.321	1.00166.11	O
ATOM	1578	N	ILE	201	3.417	-26.979	-6.735	1.00139.95	N
ATOM	1579	CA	ILE	201	4.426	-27.261	-7.708	1.00139.95	C
ATOM	1580	CB	ILE	201	5.795	-27.215	-7.117	1.00139.95	C
ATOM	1581	CG2	ILE	201	6.752	-27.187	-8.307	1.00139.95	C
ATOM	1582	CG1	ILE	201	5.970	-25.921	-6.305	1.00139.95	C

ATOM	1583	CD1	ILE	201	5.844	-24.657	-7.154	1.00139.95	C
ATOM	1584	C	ILE	201	4.181	-28.578	-8.377	1.00139.95	C
ATOM	1585	O	ILE	201	4.256	-28.668	-9.601	1.00139.95	O
ATOM	1586	N	THR	202	3.925	-29.659	-7.609	1.00158.44	N
ATOM	1587	CA	THR	202	3.721	-30.894	-8.313	1.00158.44	C
ATOM	1588	CB	THR	202	3.968	-32.141	-7.510	1.00158.44	C
ATOM	1589	OG1	THR	202	2.998	-32.289	-6.491	1.00158.44	O
ATOM	1590	CG2	THR	202	5.375	-32.061	-6.896	1.00158.44	C
ATOM	1591	C	THR	202	2.361	-30.999	-8.943	1.00158.44	C
ATOM	1592	O	THR	202	2.245	-31.253	-10.140	1.00158.44	O
ATOM	1593	N	GLY	203	1.284	-30.794	-8.158	1.00116.52	N
ATOM	1594	CA	GLY	203	-0.031	-31.011	-8.699	1.00116.52	C
ATOM	1595	C	GLY	203	-0.363	-29.998	-9.746	1.00116.52	C
ATOM	1596	O	GLY	203	-0.800	-30.339	-10.844	1.00116.52	O
ATOM	1597	N	GLY	204	-0.165	-28.710	-9.415	1.00108.86	N
ATOM	1598	CA	GLY	204	-0.526	-27.652	-10.310	1.00108.86	C
ATOM	1599	C	GLY	204	0.349	-27.657	-11.518	1.00108.86	C
ATOM	1600	O	GLY	204	-0.121	-27.476	-12.639	1.00108.86	O
ATOM	1601	N	LEU	205	1.663	-27.850	-11.330	1.00119.29	N
ATOM	1602	CA	LEU	205	2.513	-27.736	-12.477	1.00119.29	C
ATOM	1603	CB	LEU	205	4.013	-27.692	-12.153	1.00119.29	C
ATOM	1604	CG	LEU	205	4.400	-26.339	-11.534	1.00119.29	C
ATOM	1605	CD1	LEU	205	4.197	-25.198	-12.537	1.00119.29	C
ATOM	1606	CD2	LEU	205	3.605	-26.068	-10.259	1.00119.29	C
ATOM	1607	C	LEU	205	2.250	-28.813	-13.473	1.00119.29	C
ATOM	1608	O	LEU	205	2.267	-28.554	-14.675	1.00119.29	O
ATOM	1609	N	THR	206	2.065	-30.061	-13.007	1.00160.69	N
ATOM	1610	CA	THR	206	1.846	-31.171	-13.887	1.00160.69	C
ATOM	1611	CB	THR	206	2.020	-32.481	-13.177	1.00160.69	C
ATOM	1612	OG1	THR	206	1.028	-32.626	-12.170	1.00160.69	O
ATOM	1613	CG2	THR	206	3.416	-32.508	-12.534	1.00160.69	C
ATOM	1614	C	THR	206	0.479	-31.203	-14.493	1.00160.69	C
ATOM	1615	O	THR	206	0.343	-31.280	-15.710	1.00160.69	O
ATOM	1616	N	GLY	207	-0.592	-31.063	-13.689	1.00 95.95	N
ATOM	1617	CA	GLY	207	-1.826	-31.446	-14.310	1.00 95.95	C
ATOM	1618	C	GLY	207	-2.891	-30.419	-14.220	1.00 95.95	C
ATOM	1619	O	GLY	207	-3.460	-30.044	-15.245	1.00 95.95	O
ATOM	1620	N	LEU	208	-3.208	-29.957	-12.997	1.00 96.45	N
ATOM	1621	CA	LEU	208	-4.353	-29.113	-12.859	1.00 96.45	C
ATOM	1622	CB	LEU	208	-4.563	-28.666	-11.393	1.00 96.45	C
ATOM	1623	CG	LEU	208	-5.890	-27.936	-11.055	1.00 96.45	C
ATOM	1624	CD1	LEU	208	-5.930	-27.566	-9.562	1.00 96.45	C
ATOM	1625	CD2	LEU	208	-6.163	-26.705	-11.932	1.00 96.45	C
ATOM	1626	C	LEU	208	-4.172	-27.905	-13.714	1.00 96.45	C
ATOM	1627	O	LEU	208	-5.021	-27.619	-14.555	1.00 96.45	O
ATOM	1628	N	ILE	209	-3.068	-27.160	-13.552	1.00 74.29	N
ATOM	1629	CA	ILE	209	-3.016	-25.997	-14.382	1.00 74.29	C
ATOM	1630	CB	ILE	209	-1.938	-25.034	-13.969	1.00 74.29	C
ATOM	1631	CG2	ILE	209	-1.835	-23.943	-15.049	1.00 74.29	C
ATOM	1632	CG1	ILE	209	-2.202	-24.489	-12.557	1.00 74.29	C
ATOM	1633	CD1	ILE	209	-1.015	-23.725	-11.971	1.00 74.29	C
ATOM	1634	C	ILE	209	-2.739	-26.337	-15.814	1.00 74.29	C
ATOM	1635	O	ILE	209	-3.546	-26.071	-16.702	1.00 74.29	O
ATOM	1636	N	CYS	210	-1.586	-26.984	-16.058	1.00 95.64	N
ATOM	1637	CA	CYS	210	-1.100	-27.168	-17.397	1.00 95.64	C
ATOM	1638	CB	CYS	210	0.373	-27.611	-17.433	1.00 95.64	C
ATOM	1639	SG	CYS	210	1.004	-27.814	-19.126	1.00 95.64	S
ATOM	1640	C	CYS	210	-1.871	-28.146	-18.217	1.00 95.64	C
ATOM	1641	O	CYS	210	-2.242	-27.845	-19.352	1.00 95.64	O
ATOM	1642	N	VAL	211	-2.149	-29.339	-17.661	1.00 48.01	N
ATOM	1643	CA	VAL	211	-2.731	-30.370	-18.471	1.00 48.01	C
ATOM	1644	CB	VAL	211	-3.058	-31.623	-17.709	1.00 48.01	C
ATOM	1645	CG1	VAL	211	-3.826	-32.573	-18.644	1.00 48.01	C
ATOM	1646	CG2	VAL	211	-1.765	-32.237	-17.161	1.00 48.01	C
ATOM	1647	C	VAL	211	-4.033	-29.893	-19.014	1.00 48.01	C
ATOM	1648	O	VAL	211	-4.274	-29.968	-20.218	1.00 48.01	O
ATOM	1649	N	LEU	212	-4.910	-29.385	-18.130	1.00 77.10	N
ATOM	1650	CA	LEU	212	-6.206	-28.955	-18.562	1.00 77.10	C
ATOM	1651	CB	LEU	212	-7.136	-28.558	-17.405	1.00 77.10	C
ATOM	1652	CG	LEU	212	-7.503	-29.737	-16.489	1.00 77.10	C
ATOM	1653	CD1	LEU	212	-6.271	-30.265	-15.738	1.00 77.10	C
ATOM	1654	CD2	LEU	212	-8.669	-29.377	-15.556	1.00 77.10	C
ATOM	1655	C	LEU	212	-6.081	-27.758	-19.443	1.00 77.10	C
ATOM	1656	O	LEU	212	-6.737	-27.664	-20.479	1.00 77.10	O
ATOM	1657	N	CYS	213	-5.220	-26.802	-19.060	1.00 31.81	N
ATOM	1658	CA	CYS	213	-5.142	-25.601	-19.834	1.00 31.81	C
ATOM	1659	CB	CYS	213	-4.157	-24.559	-19.277	1.00 31.81	C

ATOM	1660	SG	CYS	213	-4.774	-23.721	-17.787	1.00	31.81	S
ATOM	1661	C	CYS	213	-4.685	-25.931	-21.211	1.00	31.81	C
ATOM	1662	O	CYS	213	-5.215	-25.408	-22.190	1.00	31.81	O
ATOM	1663	N	LEU	214	-3.686	-26.817	-21.338	1.00	49.62	N
ATOM	1664	CA	LEU	214	-3.205	-27.066	-22.659	1.00	49.62	C
ATOM	1665	CB	LEU	214	-2.004	-28.025	-22.706	1.00	49.62	C
ATOM	1666	CG	LEU	214	-0.739	-27.442	-22.051	1.00	49.62	C
ATOM	1667	CD1	LEU	214	0.463	-28.380	-22.230	1.00	49.62	C
ATOM	1668	CD2	LEU	214	-0.460	-26.014	-22.545	1.00	49.62	C
ATOM	1669	C	LEU	214	-4.300	-27.657	-23.474	1.00	49.62	C
ATOM	1670	O	LEU	214	-4.568	-27.185	-24.574	1.00	49.62	O
ATOM	1671	N	ILE	215	-5.010	-28.664	-22.931	1.00	81.20	N
ATOM	1672	CA	ILE	215	-6.004	-29.322	-23.727	1.00	81.20	C
ATOM	1673	CB	ILE	215	-6.671	-30.482	-23.043	1.00	81.20	C
ATOM	1674	CG2	ILE	215	-7.418	-29.962	-21.808	1.00	81.20	C
ATOM	1675	CG1	ILE	215	-7.565	-31.240	-24.043	1.00	81.20	C
ATOM	1676	CD1	ILE	215	-8.067	-32.588	-23.528	1.00	81.20	C
ATOM	1677	C	ILE	215	-7.060	-28.343	-24.108	1.00	81.20	C
ATOM	1678	O	ILE	215	-7.522	-28.337	-25.248	1.00	81.20	O
ATOM	1679	N	ILE	216	-7.480	-27.486	-23.161	1.00	110.05	N
ATOM	1680	CA	ILE	216	-8.512	-26.547	-23.477	1.00	110.05	C
ATOM	1681	CB	ILE	216	-8.992	-25.766	-22.280	1.00	110.05	C
ATOM	1682	CG2	ILE	216	-7.867	-24.834	-21.799	1.00	110.05	C
ATOM	1683	CG1	ILE	216	-10.298	-25.031	-22.620	1.00	110.05	C
ATOM	1684	CD1	ILE	216	-11.464	-25.972	-22.918	1.00	110.05	C
ATOM	1685	C	ILE	216	-7.998	-25.605	-24.526	1.00	110.05	C
ATOM	1686	O	ILE	216	-8.698	-25.289	-25.487	1.00	110.05	O
ATOM	1687	N	SER	217	-6.742	-25.146	-24.370	1.00	36.13	N
ATOM	1688	CA	SER	217	-6.135	-24.213	-25.274	1.00	36.13	C
ATOM	1689	CB	SER	217	-4.796	-23.661	-24.752	1.00	36.13	C
ATOM	1690	OG	SER	217	-3.846	-24.708	-24.612	1.00	36.13	O
ATOM	1691	C	SER	217	-5.878	-24.865	-26.598	1.00	36.13	C
ATOM	1692	O	SER	217	-5.750	-24.176	-27.609	1.00	36.13	O
ATOM	1693	N	TYR	218	-5.817	-26.211	-26.646	1.00	116.04	N
ATOM	1694	CA	TYR	218	-5.505	-26.858	-27.889	1.00	116.04	C
ATOM	1695	CB	TYR	218	-5.507	-28.402	-27.875	1.00	116.04	C
ATOM	1696	CG	TYR	218	-4.205	-28.919	-27.364	1.00	116.04	C
ATOM	1697	CD1	TYR	218	-3.111	-28.919	-28.197	1.00	116.04	C
ATOM	1698	CD2	TYR	218	-4.059	-29.400	-26.085	1.00	116.04	C
ATOM	1699	CE1	TYR	218	-1.891	-29.385	-27.769	1.00	116.04	C
ATOM	1700	CE2	TYR	218	-2.841	-29.870	-25.647	1.00	116.04	C
ATOM	1701	CZ	TYR	218	-1.754	-29.862	-26.488	1.00	116.04	C
ATOM	1702	OH	TYR	218	-0.504	-30.342	-26.043	1.00	116.04	O
ATOM	1703	C	TYR	218	-6.510	-26.469	-28.912	1.00	116.04	C
ATOM	1704	O	TYR	218	-6.154	-26.186	-30.053	1.00	116.04	O
ATOM	1705	N	THR	219	-7.798	-26.438	-28.538	1.00	96.24	N
ATOM	1706	CA	THR	219	-8.779	-26.091	-29.519	1.00	96.24	C
ATOM	1707	CB	THR	219	-10.180	-26.065	-28.980	1.00	96.24	C
ATOM	1708	OG1	THR	219	-10.291	-25.094	-27.949	1.00	96.24	O
ATOM	1709	CG2	THR	219	-10.543	-27.464	-28.450	1.00	96.24	C
ATOM	1710	C	THR	219	-8.459	-24.714	-30.000	1.00	96.24	C
ATOM	1711	O	THR	219	-8.536	-24.432	-31.194	1.00	96.24	O
ATOM	1712	N	ASN	220	-8.071	-23.820	-29.073	1.00	34.30	N
ATOM	1713	CA	ASN	220	-7.777	-22.469	-29.450	1.00	34.30	C
ATOM	1714	CB	ASN	220	-7.424	-21.578	-28.247	1.00	34.30	C
ATOM	1715	CG	ASN	220	-8.673	-21.403	-27.396	1.00	34.30	C
ATOM	1716	OD1	ASN	220	-9.733	-21.946	-27.701	1.00	34.30	O
ATOM	1717	ND2	ASN	220	-8.547	-20.606	-26.302	1.00	34.30	N
ATOM	1718	C	ASN	220	-6.600	-22.438	-30.378	1.00	34.30	C
ATOM	1719	O	ASN	220	-6.643	-21.786	-31.420	1.00	34.30	O
ATOM	1720	N	VAL	221	-5.516	-23.154	-30.025	1.00	91.99	N
ATOM	1721	CA	VAL	221	-4.318	-23.125	-30.816	1.00	91.99	C
ATOM	1722	CB	VAL	221	-3.168	-23.847	-30.175	1.00	91.99	C
ATOM	1723	CG1	VAL	221	-2.801	-23.123	-28.870	1.00	91.99	C
ATOM	1724	CG2	VAL	221	-3.555	-25.319	-29.981	1.00	91.99	C
ATOM	1725	C	VAL	221	-4.566	-23.748	-32.156	1.00	91.99	C
ATOM	1726	O	VAL	221	-4.087	-23.254	-33.175	1.00	91.99	O
ATOM	1727	N	PHE	222	-5.348	-24.841	-32.186	1.00	69.99	N
ATOM	1728	CA	PHE	222	-5.616	-25.573	-33.391	1.00	69.99	C
ATOM	1729	CB	PHE	222	-6.404	-26.880	-33.202	1.00	69.99	C
ATOM	1730	CG	PHE	222	-5.403	-27.939	-32.905	1.00	69.99	C
ATOM	1731	CD1	PHE	222	-4.676	-28.476	-33.942	1.00	69.99	C
ATOM	1732	CD2	PHE	222	-5.191	-28.398	-31.628	1.00	69.99	C
ATOM	1733	CE1	PHE	222	-3.744	-29.458	-33.717	1.00	69.99	C
ATOM	1734	CE2	PHE	222	-4.258	-29.383	-31.397	1.00	69.99	C
ATOM	1735	CZ	PHE	222	-3.532	-29.912	-32.438	1.00	69.99	C
ATOM	1736	C	PHE	222	-6.345	-24.734	-34.375	1.00	69.99	C

ATOM	1737	O	PHE	222	-6.248	-24.986	-35.573	1.00	69.99	O
ATOM	1738	N	SER	223	-7.133	-23.751	-33.911	1.00	41.46	N
ATOM	1739	CA	SER	223	-7.885	-22.967	-34.845	1.00	41.46	C
ATOM	1740	CB	SER	223	-8.671	-21.823	-34.180	1.00	41.46	C
ATOM	1741	OG	SER	223	-7.783	-20.882	-33.595	1.00	41.46	O
ATOM	1742	C	SER	223	-6.954	-22.370	-35.861	1.00	41.46	C
ATOM	1743	O	SER	223	-7.200	-22.487	-37.061	1.00	41.46	O
ATOM	1744	N	THR	224	-5.864	-21.709	-35.424	1.00126.29		N
ATOM	1745	CA	THR	224	-4.953	-21.149	-36.382	1.00126.29		C
ATOM	1746	CB	THR	224	-3.962	-20.216	-35.744	1.00126.29		C
ATOM	1747	OG1	THR	224	-3.085	-19.688	-36.727	1.00126.29		O
ATOM	1748	CG2	THR	224	-3.180	-20.950	-34.639	1.00126.29		C
ATOM	1749	C	THR	224	-4.209	-22.221	-37.128	1.00126.29		C
ATOM	1750	O	THR	224	-4.276	-22.279	-38.355	1.00126.29		O
ATOM	1751	N	ILE	225	-3.500	-23.123	-36.412	1.00122.54		N
ATOM	1752	CA	ILE	225	-2.755	-24.133	-37.107	1.00122.54		C
ATOM	1753	CB	ILE	225	-1.292	-24.102	-36.745	1.00122.54		C
ATOM	1754	CG2	ILE	225	-1.146	-24.167	-35.215	1.00122.54		C
ATOM	1755	CG1	ILE	225	-0.507	-25.174	-37.513	1.00122.54		C
ATOM	1756	CD1	ILE	225	1.006	-24.986	-37.409	1.00122.54		C
ATOM	1757	C	ILE	225	-3.338	-25.462	-36.759	1.00122.54		C
ATOM	1758	O	ILE	225	-2.804	-26.215	-35.947	1.00122.54		O
ATOM	1759	N	LEU	226	-4.499	-25.765	-37.354	1.00116.61		N
ATOM	1760	CA	LEU	226	-5.139	-27.022	-37.128	1.00116.61		C
ATOM	1761	CB	LEU	226	-6.610	-26.984	-37.600	1.00116.61		C
ATOM	1762	CG	LEU	226	-7.475	-28.253	-37.409	1.00116.61		C
ATOM	1763	CD1	LEU	226	-8.930	-27.943	-37.795	1.00116.61		C
ATOM	1764	CD2	LEU	226	-6.957	-29.479	-38.183	1.00116.61		C
ATOM	1765	C	LEU	226	-4.400	-28.067	-37.898	1.00116.61		C
ATOM	1766	O	LEU	226	-4.145	-29.163	-37.402	1.00116.61		O
ATOM	1767	N	LYS	227	-4.024	-27.693	-39.136	1.00178.38		N
ATOM	1768	CA	LYS	227	-3.546	-28.561	-40.171	1.00178.38		C
ATOM	1769	CB	LYS	227	-3.324	-27.793	-41.484	1.00178.38		C
ATOM	1770	CG	LYS	227	-2.854	-28.664	-42.650	1.00178.38		C
ATOM	1771	CD	LYS	227	-3.934	-29.605	-43.181	1.00178.38		C
ATOM	1772	CE	LYS	227	-4.199	-30.804	-42.271	1.00178.38		C
ATOM	1773	NZ	LYS	227	-3.020	-31.697	-42.266	1.00178.38		N
ATOM	1774	C	LYS	227	-2.275	-29.290	-39.903	1.00178.38		C
ATOM	1775	O	LYS	227	-2.258	-30.517	-39.959	1.00178.38		O
ATOM	1776	N	ILE	228	-1.165	-28.611	-39.578	1.00197.84		N
ATOM	1777	CA	ILE	228	-0.033	-29.482	-39.614	1.00197.84		C
ATOM	1778	CB	ILE	228	0.997	-29.086	-40.643	1.00197.84		C
ATOM	1779	CG2	ILE	228	0.313	-29.169	-42.019	1.00197.84		C
ATOM	1780	CG1	ILE	228	1.624	-27.708	-40.349	1.00197.84		C
ATOM	1781	CD1	ILE	228	0.622	-26.556	-40.324	1.00197.84		C
ATOM	1782	C	ILE	228	0.638	-29.618	-38.298	1.00197.84		C
ATOM	1783	O	ILE	228	1.333	-28.721	-37.822	1.00197.84		O
ATOM	1784	N	PRO	229	0.373	-30.727	-37.669	1.00225.85		N
ATOM	1785	CA	PRO	229	1.150	-31.066	-36.520	1.00225.85		C
ATOM	1786	CD	PRO	229	-0.999	-31.195	-37.544	1.00225.85		C
ATOM	1787	CB	PRO	229	0.315	-32.056	-35.712	1.00225.85		C
ATOM	1788	CG	PRO	229	-1.131	-31.735	-36.115	1.00225.85		C
ATOM	1789	C	PRO	229	2.427	-31.670	-36.999	1.00225.85		C
ATOM	1790	O	PRO	229	3.409	-31.665	-36.264	1.00225.85		O
ATOM	1791	N	SER	230	2.453	-32.176	-38.244	1.00149.80		N
ATOM	1792	CA	SER	230	3.583	-32.944	-38.675	1.00149.80		C
ATOM	1793	CB	SER	230	3.436	-33.503	-40.099	1.00149.80		C
ATOM	1794	OG	SER	230	3.342	-32.434	-41.027	1.00149.80		O
ATOM	1795	C	SER	230	4.835	-32.143	-38.607	1.00149.80		C
ATOM	1796	O	SER	230	4.857	-30.947	-38.894	1.00149.80		O
ATOM	1797	N	ALA	231	5.917	-32.819	-38.171	1.00319.56		N
ATOM	1798	CA	ALA	231	7.206	-32.210	-38.088	1.00319.56		C
ATOM	1799	CB	ALA	231	7.193	-30.804	-37.467	1.00319.56		C
ATOM	1800	C	ALA	231	8.016	-33.058	-37.200	1.00319.56		C
ATOM	1801	O	ALA	231	7.481	-33.878	-36.453	1.00319.56		O
ATOM	1802	N	GLN	232	9.345	-32.878	-37.251	1.00227.53		N
ATOM	1803	CA	GLN	232	10.125	-33.635	-36.336	1.00227.53		C
ATOM	1804	CB	GLN	232	11.593	-33.772	-36.760	1.00227.53		C
ATOM	1805	CG	GLN	232	11.741	-34.515	-38.087	1.00227.53		C
ATOM	1806	CD	GLN	232	11.160	-35.912	-37.909	1.00227.53		C
ATOM	1807	OE1	GLN	232	11.705	-36.737	-37.178	1.00227.53		O
ATOM	1808	NE2	GLN	232	10.013	-36.182	-38.589	1.00227.53		N
ATOM	1809	C	GLN	232	10.069	-32.852	-35.076	1.00227.53		C
ATOM	1810	O	GLN	232	11.075	-32.345	-34.582	1.00227.53		O
ATOM	1811	N	GLY	233	8.847	-32.742	-34.529	1.00219.48		N
ATOM	1812	CA	GLY	233	8.653	-32.045	-33.306	1.00219.48		C
ATOM	1813	C	GLY	233	8.706	-30.580	-33.570	1.00219.48		C

ATOM	1814	O	GLY	233	8.821	-29.789	-32.636	1.00219.48	O
ATOM	1815	N	LYS	234	8.618	-30.160	-34.844	1.00185.45	N
ATOM	1816	CA	LYS	234	8.670	-28.748	-35.074	1.00185.45	C
ATOM	1817	CB	LYS	234	8.594	-28.358	-36.561	1.00185.45	C
ATOM	1818	CG	LYS	234	9.842	-28.738	-37.363	1.00185.45	C
ATOM	1819	CD	LYS	234	11.131	-28.137	-36.801	1.00185.45	C
ATOM	1820	CE	LYS	234	11.068	-26.620	-36.623	1.00185.45	C
ATOM	1821	NZ	LYS	234	12.219	-26.158	-35.816	1.00185.45	N
ATOM	1822	C	LYS	234	7.487	-28.156	-34.387	1.00185.45	C
ATOM	1823	O	LYS	234	7.590	-27.115	-33.739	1.00185.45	O
ATOM	1824	N	ARG	235	6.327	-28.829	-34.502	1.00163.13	N
ATOM	1825	CA	ARG	235	5.136	-28.301	-33.909	1.00163.13	C
ATOM	1826	CB	ARG	235	4.209	-27.720	-34.985	1.00163.13	C
ATOM	1827	CG	ARG	235	4.962	-26.707	-35.849	1.00163.13	C
ATOM	1828	CD	ARG	235	4.135	-26.010	-36.927	1.00163.13	C
ATOM	1829	NE	ARG	235	5.088	-25.143	-37.674	1.00163.13	N
ATOM	1830	CZ	ARG	235	5.507	-23.968	-37.122	1.00163.13	C
ATOM	1831	NH1	ARG	235	5.016	-23.573	-35.910	1.00163.13	N
ATOM	1832	NH2	ARG	235	6.429	-23.198	-37.770	1.00163.13	N
ATOM	1833	C	ARG	235	4.418	-29.431	-33.236	1.00163.13	C
ATOM	1834	O	ARG	235	3.734	-29.237	-32.233	1.00163.13	O
ATOM	1835	N	LYS	236	4.605	-30.654	-33.767	1.00126.30	N
ATOM	1836	CA	LYS	236	3.965	-31.859	-33.314	1.00126.30	C
ATOM	1837	CB	LYS	236	4.395	-33.083	-34.149	1.00126.30	C
ATOM	1838	CG	LYS	236	3.534	-34.343	-34.004	1.00126.30	C
ATOM	1839	CD	LYS	236	3.674	-35.104	-32.685	1.00126.30	C
ATOM	1840	CE	LYS	236	2.854	-36.399	-32.669	1.00126.30	C
ATOM	1841	NZ	LYS	236	3.345	-37.315	-31.616	1.00126.30	N
ATOM	1842	C	LYS	236	4.383	-32.117	-31.907	1.00126.30	C
ATOM	1843	O	LYS	236	3.622	-32.659	-31.106	1.00126.30	O
ATOM	1844	N	ALA	237	5.606	-31.686	-31.566	1.00 52.55	N
ATOM	1845	CA	ALA	237	6.178	-31.976	-30.289	1.00 52.55	C
ATOM	1846	CB	ALA	237	7.538	-31.294	-30.071	1.00 52.55	C
ATOM	1847	C	ALA	237	5.253	-31.495	-29.223	1.00 52.55	C
ATOM	1848	O	ALA	237	5.143	-32.125	-28.178	1.00 52.55	O
ATOM	1849	N	PHE	238	4.546	-30.381	-29.452	1.00116.13	N
ATOM	1850	CA	PHE	238	3.712	-29.809	-28.433	1.00116.13	C
ATOM	1851	CB	PHE	238	2.943	-28.593	-28.976	1.00116.13	C
ATOM	1852	CG	PHE	238	2.369	-27.817	-27.844	1.00116.13	C
ATOM	1853	CD1	PHE	238	1.114	-28.103	-27.361	1.00116.13	C
ATOM	1854	CD2	PHE	238	3.094	-26.796	-27.271	1.00116.13	C
ATOM	1855	CE1	PHE	238	0.588	-27.379	-26.317	1.00116.13	C
ATOM	1856	CE2	PHE	238	2.573	-26.068	-26.227	1.00116.13	C
ATOM	1857	CZ	PHE	238	1.318	-26.362	-25.750	1.00116.13	C
ATOM	1858	C	PHE	238	2.703	-30.823	-27.981	1.00116.13	C
ATOM	1859	O	PHE	238	2.507	-31.016	-26.782	1.00116.13	O
ATOM	1860	N	SER	239	2.030	-31.507	-28.926	1.00 75.53	N
ATOM	1861	CA	SER	239	1.041	-32.474	-28.537	1.00 75.53	C
ATOM	1862	CB	SER	239	0.343	-33.130	-29.740	1.00 75.53	C
ATOM	1863	OG	SER	239	-0.623	-34.070	-29.294	1.00 75.53	O
ATOM	1864	C	SER	239	1.715	-33.572	-27.777	1.00 75.53	C
ATOM	1865	O	SER	239	1.220	-34.030	-26.748	1.00 75.53	O
ATOM	1866	N	THR	240	2.891	-33.998	-28.268	1.00 44.82	N
ATOM	1867	CA	THR	240	3.615	-35.095	-27.700	1.00 44.82	C
ATOM	1868	CB	THR	240	4.878	-35.398	-28.444	1.00 44.82	C
ATOM	1869	OG1	THR	240	4.590	-35.682	-29.804	1.00 44.82	O
ATOM	1870	CG2	THR	240	5.551	-36.609	-27.777	1.00 44.82	C
ATOM	1871	C	THR	240	4.028	-34.747	-26.313	1.00 44.82	C
ATOM	1872	O	THR	240	4.019	-35.593	-25.423	1.00 44.82	O
ATOM	1873	N	CYS	241	4.390	-33.476	-26.093	1.00 78.90	N
ATOM	1874	CA	CYS	241	4.924	-33.050	-24.840	1.00 78.90	C
ATOM	1875	CB	CYS	241	5.169	-31.532	-24.812	1.00 78.90	C
ATOM	1876	SG	CYS	241	5.970	-30.982	-23.279	1.00 78.90	S
ATOM	1877	C	CYS	241	3.928	-33.389	-23.781	1.00 78.90	C
ATOM	1878	O	CYS	241	4.276	-33.986	-22.764	1.00 78.90	O
ATOM	1879	N	SER	242	2.651	-33.041	-24.007	1.00 71.57	N
ATOM	1880	CA	SER	242	1.641	-33.317	-23.031	1.00 71.57	C
ATOM	1881	CB	SER	242	0.277	-32.718	-23.409	1.00 71.57	C
ATOM	1882	OG	SER	242	0.379	-31.302	-23.472	1.00 71.57	O
ATOM	1883	C	SER	242	1.479	-34.801	-22.915	1.00 71.57	C
ATOM	1884	O	SER	242	1.269	-35.322	-21.821	1.00 71.57	O
ATOM	1885	N	SER	243	1.586	-35.522	-24.048	1.00 75.63	N
ATOM	1886	CA	SER	243	1.388	-36.944	-24.053	1.00 75.63	C
ATOM	1887	CB	SER	243	1.438	-37.544	-25.470	1.00 75.63	C
ATOM	1888	OG	SER	243	0.345	-37.072	-26.245	1.00 75.63	O
ATOM	1889	C	SER	243	2.449	-37.622	-23.237	1.00 75.63	C
ATOM	1890	O	SER	243	2.156	-38.530	-22.467	1.00 75.63	O

ATOM	1891	N	HIS	244	3.715	-37.196	-23.383	1.00	88.63	N
ATOM	1892	CA	HIS	244	4.838	-37.790	-22.710	1.00	88.63	C
ATOM	1893	ND1	HIS	244	7.649	-37.788	-21.181	1.00	88.63	N
ATOM	1894	CG	HIS	244	7.405	-37.643	-22.529	1.00	88.63	C
ATOM	1895	CB	HIS	244	6.143	-37.072	-23.105	1.00	88.63	C
ATOM	1896	NE2	HIS	244	9.476	-38.491	-22.239	1.00	88.63	N
ATOM	1897	CD2	HIS	244	8.531	-38.075	-23.159	1.00	88.63	C
ATOM	1898	CE1	HIS	244	8.902	-38.299	-21.065	1.00	88.63	C
ATOM	1899	C	HIS	244	4.663	-37.615	-21.238	1.00	88.63	C
ATOM	1900	O	HIS	244	4.865	-38.541	-20.454	1.00	88.63	O
ATOM	1901	N	LEU	245	4.276	-36.400	-20.821	1.00141.77		N
ATOM	1902	CA	LEU	245	4.123	-36.156	-19.420	1.00141.77		C
ATOM	1903	CB	LEU	245	3.705	-34.704	-19.125	1.00141.77		C
ATOM	1904	CG	LEU	245	4.711	-33.663	-19.654	1.00141.77		C
ATOM	1905	CD1	LEU	245	4.269	-32.231	-19.313	1.00141.77		C
ATOM	1906	CD2	LEU	245	6.142	-33.975	-19.193	1.00141.77		C
ATOM	1907	C	LEU	245	3.023	-37.049	-18.939	1.00141.77		C
ATOM	1908	O	LEU	245	3.138	-37.691	-17.896	1.00141.77		O
ATOM	1909	N	SER	246	1.932	-37.126	-19.723	1.00	74.01	N
ATOM	1910	CA	SER	246	0.780	-37.892	-19.348	1.00	74.01	C
ATOM	1911	CB	SER	246	-0.369	-37.788	-20.368	1.00	74.01	C
ATOM	1912	OG	SER	246	-0.808	-36.443	-20.480	1.00	74.01	O
ATOM	1913	C	SER	246	1.149	-39.340	-19.259	1.00	74.01	C
ATOM	1914	O	SER	246	0.759	-40.026	-18.317	1.00	74.01	O
ATOM	1915	N	VAL	247	1.904	-39.855	-20.246	1.00	90.53	N
ATOM	1916	CA	VAL	247	2.248	-41.247	-20.250	1.00	90.53	C
ATOM	1917	CB	VAL	247	2.950	-41.698	-21.504	1.00	90.53	C
ATOM	1918	CG1	VAL	247	1.989	-41.511	-22.692	1.00	90.53	C
ATOM	1919	CG2	VAL	247	4.281	-40.942	-21.641	1.00	90.53	C
ATOM	1920	C	VAL	247	3.129	-41.527	-19.077	1.00	90.53	C
ATOM	1921	O	VAL	247	2.931	-42.506	-18.360	1.00	90.53	O
ATOM	1922	N	VAL	248	4.120	-40.648	-18.840	1.00	33.72	N
ATOM	1923	CA	VAL	248	5.035	-40.829	-17.757	1.00	33.72	C
ATOM	1924	CB	VAL	248	6.049	-39.725	-17.685	1.00	33.72	C
ATOM	1925	CG1	VAL	248	6.870	-39.897	-16.395	1.00	33.72	C
ATOM	1926	CG2	VAL	248	6.890	-39.747	-18.974	1.00	33.72	C
ATOM	1927	C	VAL	248	4.240	-40.795	-16.494	1.00	33.72	C
ATOM	1928	O	VAL	248	4.458	-41.596	-15.585	1.00	33.72	O
ATOM	1929	N	SER	249	3.288	-39.847	-16.423	1.00	47.32	N
ATOM	1930	CA	SER	249	2.459	-39.647	-15.273	1.00	47.32	C
ATOM	1931	CB	SER	249	1.654	-38.334	-15.310	1.00	47.32	C
ATOM	1932	OG	SER	249	0.679	-38.372	-16.340	1.00	47.32	O
ATOM	1933	C	SER	249	1.484	-40.773	-15.154	1.00	47.32	C
ATOM	1934	O	SER	249	0.906	-40.970	-14.087	1.00	47.32	O
ATOM	1935	N	LEU	250	1.253	-41.537	-16.241	1.00140.51		N
ATOM	1936	CA	LEU	250	0.289	-42.592	-16.128	1.00140.51		C
ATOM	1937	CB	LEU	250	0.133	-43.440	-17.406	1.00140.51		C
ATOM	1938	CG	LEU	250	-0.517	-42.710	-18.596	1.00140.51		C
ATOM	1939	CD1	LEU	250	-0.628	-43.648	-19.812	1.00140.51		C
ATOM	1940	CD2	LEU	250	-1.867	-42.081	-18.202	1.00140.51		C
ATOM	1941	C	LEU	250	0.793	-43.513	-15.074	1.00140.51		C
ATOM	1942	O	LEU	250	0.048	-43.916	-14.183	1.00140.51		O
ATOM	1943	N	PHE	251	2.077	-43.896	-15.184	1.00108.97		N
ATOM	1944	CA	PHE	251	2.713	-44.730	-14.206	1.00108.97		C
ATOM	1945	CB	PHE	251	3.978	-45.405	-14.745	1.00108.97		C
ATOM	1946	CG	PHE	251	3.536	-46.363	-15.795	1.00108.97		C
ATOM	1947	CD1	PHE	251	3.316	-45.940	-17.086	1.00108.97		C
ATOM	1948	CD2	PHE	251	3.334	-47.686	-15.483	1.00108.97		C
ATOM	1949	CE1	PHE	251	2.909	-46.827	-18.056	1.00108.97		C
ATOM	1950	CE2	PHE	251	2.927	-48.578	-16.446	1.00108.97		C
ATOM	1951	CZ	PHE	251	2.716	-48.149	-17.734	1.00108.97		C
ATOM	1952	C	PHE	251	3.101	-43.947	-12.986	1.00108.97		C
ATOM	1953	O	PHE	251	2.975	-44.421	-11.861	1.00108.97		O
ATOM	1954	N	PHE	252	3.613	-42.724	-13.211	1.00138.88		N
ATOM	1955	CA	PHE	252	4.216	-41.854	-12.237	1.00138.88		C
ATOM	1956	CB	PHE	252	4.753	-40.610	-12.964	1.00138.88		C
ATOM	1957	CG	PHE	252	6.021	-40.139	-12.348	1.00138.88		C
ATOM	1958	CD1	PHE	252	7.203	-40.670	-12.809	1.00138.88		C
ATOM	1959	CD2	PHE	252	6.054	-39.190	-11.354	1.00138.88		C
ATOM	1960	CE1	PHE	252	8.409	-40.271	-12.291	1.00138.88		C
ATOM	1961	CE2	PHE	252	7.261	-38.786	-10.832	1.00138.88		C
ATOM	1962	CZ	PHE	252	8.437	-39.328	-11.295	1.00138.88		C
ATOM	1963	C	PHE	252	3.201	-41.375	-11.234	1.00138.88		C
ATOM	1964	O	PHE	252	3.464	-41.351	-10.033	1.00138.88		O
ATOM	1965	N	GLY	253	2.005	-40.981	-11.715	1.00	41.25	N
ATOM	1966	CA	GLY	253	1.018	-40.333	-10.893	1.00	41.25	C
ATOM	1967	C	GLY	253	0.519	-41.181	-9.755	1.00	41.25	C

ATOM	1968	O	GLY	253	0.443	-40.701	-8.628	1.00	41.25	O
ATOM	1969	N	THR	254	0.151	-42.455	-9.999	1.00	38.94	N
ATOM	1970	CA	THR	254	-0.425	-43.256	-8.947	1.00	38.94	C
ATOM	1971	CB	THR	254	-0.830	-44.626	-9.418	1.00	38.94	C
ATOM	1972	OG1	THR	254	-1.786	-44.530	-10.463	1.00	38.94	O
ATOM	1973	CG2	THR	254	-1.415	-45.413	-8.231	1.00	38.94	C
ATOM	1974	C	THR	254	0.579	-43.472	-7.868	1.00	38.94	C
ATOM	1975	O	THR	254	0.293	-43.291	-6.684	1.00	38.94	O
ATOM	1976	N	SER	255	1.798	-43.866	-8.269	1.00	43.94	N
ATOM	1977	CA	SER	255	2.815	-44.164	-7.314	1.00	43.94	C
ATOM	1978	CB	SER	255	4.132	-44.631	-7.965	1.00	43.94	C
ATOM	1979	OG	SER	255	4.703	-43.581	-8.734	1.00	43.94	O
ATOM	1980	C	SER	255	3.114	-42.927	-6.545	1.00	43.94	C
ATOM	1981	O	SER	255	3.074	-42.949	-5.320	1.00	43.94	O
ATOM	1982	N	PHE	256	3.405	-41.807	-7.230	1.00	70.91	N
ATOM	1983	CA	PHE	256	3.751	-40.591	-6.549	1.00	70.91	C
ATOM	1984	CB	PHE	256	4.255	-39.467	-7.471	1.00	70.91	C
ATOM	1985	CG	PHE	256	5.723	-39.672	-7.619	1.00	70.91	C
ATOM	1986	CD1	PHE	256	6.244	-40.556	-8.535	1.00	70.91	C
ATOM	1987	CD2	PHE	256	6.583	-38.961	-6.813	1.00	70.91	C
ATOM	1988	CE1	PHE	256	7.606	-40.722	-8.638	1.00	70.91	C
ATOM	1989	CE2	PHE	256	7.943	-39.122	-6.912	1.00	70.91	C
ATOM	1990	CZ	PHE	256	8.456	-40.005	-7.830	1.00	70.91	C
ATOM	1991	C	PHE	256	2.619	-40.056	-5.746	1.00	70.91	C
ATOM	1992	O	PHE	256	2.843	-39.593	-4.630	1.00	70.91	O
ATOM	1993	N	CYS	257	1.388	-40.055	-6.277	1.00	46.75	N
ATOM	1994	CA	CYS	257	0.294	-39.522	-5.517	1.00	46.75	C
ATOM	1995	CB	CYS	257	-1.032	-39.543	-6.295	1.00	46.75	C
ATOM	1996	SG	CYS	257	-2.413	-38.874	-5.323	1.00	46.75	S
ATOM	1997	C	CYS	257	0.098	-40.358	-4.294	1.00	46.75	C
ATOM	1998	O	CYS	257	0.043	-39.854	-3.172	1.00	46.75	O
ATOM	1999	N	VAL	258	0.028	-41.686	-4.480	1.00	90.01	N
ATOM	2000	CA	VAL	258	-0.206	-42.540	-3.360	1.00	90.01	C
ATOM	2001	CB	VAL	258	-0.314	-43.992	-3.723	1.00	90.01	C
ATOM	2002	CG1	VAL	258	1.030	-44.468	-4.297	1.00	90.01	C
ATOM	2003	CG2	VAL	258	-0.755	-44.764	-2.468	1.00	90.01	C
ATOM	2004	C	VAL	258	0.948	-42.371	-2.440	1.00	90.01	C
ATOM	2005	O	VAL	258	0.791	-42.411	-1.227	1.00	90.01	O
ATOM	2006	N	ASP	259	2.145	-42.193	-3.020	1.00	78.34	N
ATOM	2007	CA	ASP	259	3.370	-42.017	-2.300	1.00	78.34	C
ATOM	2008	CB	ASP	259	4.636	-42.024	-3.180	1.00	78.34	C
ATOM	2009	CG	ASP	259	5.022	-43.469	-3.476	1.00	78.34	C
ATOM	2010	OD1	ASP	259	4.675	-44.358	-2.653	1.00	78.34	O
ATOM	2011	OD2	ASP	259	5.668	-43.701	-4.533	1.00	78.34	O
ATOM	2012	C	ASP	259	3.351	-40.721	-1.554	1.00	78.34	C
ATOM	2013	O	ASP	259	3.983	-40.604	-0.517	1.00	78.34	O
ATOM	2014	N	PHE	260	2.689	-39.667	-2.049	1.00111.36		N
ATOM	2015	CA	PHE	260	2.733	-38.486	-1.245	1.00111.36		C
ATOM	2016	CB	PHE	260	2.038	-37.260	-1.870	1.00111.36		C
ATOM	2017	CG	PHE	260	2.722	-36.918	-3.151	1.00111.36		C
ATOM	2018	CD1	PHE	260	4.028	-36.484	-3.169	1.00111.36		C
ATOM	2019	CD2	PHE	260	2.031	-36.996	-4.339	1.00111.36		C
ATOM	2020	CE1	PHE	260	4.637	-36.166	-4.362	1.00111.36		C
ATOM	2021	CE2	PHE	260	2.635	-36.677	-5.533	1.00111.36		C
ATOM	2022	CZ	PHE	260	3.945	-36.267	-5.546	1.00111.36		C
ATOM	2023	C	PHE	260	2.007	-38.817	0.011	1.00111.36		C
ATOM	2024	O	PHE	260	2.510	-38.618	1.115	1.00111.36		O
ATOM	2025	N	SER	261	0.821	-39.419	-0.145	1.00103.06		N
ATOM	2026	CA	SER	261	0.054	-39.747	1.013	1.00103.06		C
ATOM	2027	CB	SER	261	-1.305	-40.386	0.669	1.00103.06		C
ATOM	2028	OG	SER	261	-2.151	-39.452	0.013	1.00103.06		O
ATOM	2029	C	SER	261	0.812	-40.739	1.859	1.00103.06		C
ATOM	2030	O	SER	261	0.941	-40.574	3.073	1.00103.06		O
ATOM	2031	N	SER	262	1.359	-41.794	1.228	1.00	86.09	N
ATOM	2032	CA	SER	262	1.985	-42.864	1.953	1.00	86.09	C
ATOM	2033	CB	SER	262	2.281	-44.105	1.081	1.00	86.09	C
ATOM	2034	OG	SER	262	2.799	-43.744	-0.191	1.00	86.09	O
ATOM	2035	C	SER	262	3.187	-42.408	2.734	1.00	86.09	C
ATOM	2036	O	SER	262	3.222	-42.675	3.930	1.00	86.09	O
ATOM	2037	N	PRO	263	4.186	-41.767	2.184	1.00148.85		N
ATOM	2038	CA	PRO	263	5.169	-41.258	3.091	1.00148.85		C
ATOM	2039	CD	PRO	263	4.954	-42.532	1.218	1.00148.85		C
ATOM	2040	CB	PRO	263	6.364	-40.833	2.234	1.00148.85		C
ATOM	2041	CG	PRO	263	6.173	-41.635	0.931	1.00148.85		C
ATOM	2042	C	PRO	263	4.679	-40.250	4.071	1.00148.85		C
ATOM	2043	O	PRO	263	5.405	-39.991	5.031	1.00148.85		O
ATOM	2044	N	SER	264	3.491	-39.652	3.860	1.00115.98		N

ATOM	2045	CA	SER	264	2.977	-38.791	4.883	1.00115.98	C
ATOM	2046	CB	SER	264	1.594	-38.204	4.563	1.00115.98	C
ATOM	2047	OG	SER	264	1.689	-37.294	3.478	1.00115.98	O
ATOM	2048	C	SER	264	2.825	-39.698	6.055	1.00115.98	C
ATOM	2049	O	SER	264	2.987	-39.294	7.204	1.00115.98	O
ATOM	2050	N	THR	265	2.511	-40.976	5.766	1.00179.81	N
ATOM	2051	CA	THR	265	2.474	-42.004	6.768	1.00179.81	C
ATOM	2052	CB	THR	265	1.655	-43.200	6.371	1.00179.81	C
ATOM	2053	OG1	THR	265	0.308	-42.820	6.128	1.00179.81	O
ATOM	2054	CG2	THR	265	1.723	-44.246	7.496	1.00179.81	C
ATOM	2055	C	THR	265	3.898	-42.471	6.865	1.00179.81	C
ATOM	2056	O	THR	265	4.355	-43.315	6.101	1.00179.81	O
ATOM	2057	N	HIS	266	4.624	-41.958	7.865	1.00205.83	N
ATOM	2058	CA	HIS	266	6.053	-42.086	7.990	1.00205.83	C
ATOM	2059	ND1	HIS	266	8.794	-40.202	8.870	1.00205.83	N
ATOM	2060	CG	HIS	266	8.060	-41.268	9.337	1.00205.83	C
ATOM	2061	CB	HIS	266	6.566	-41.357	9.243	1.00205.83	C
ATOM	2062	NE2	HIS	266	10.246	-41.633	9.757	1.00205.83	N
ATOM	2063	CD2	HIS	266	8.963	-42.136	9.875	1.00205.83	C
ATOM	2064	CE1	HIS	266	10.095	-40.471	9.148	1.00205.83	C
ATOM	2065	C	HIS	266	6.571	-43.495	8.064	1.00205.83	C
ATOM	2066	O	HIS	266	7.485	-43.846	7.322	1.00205.83	O
ATOM	2067	N	SER	267	6.006	-44.362	8.919	1.00 67.25	N
ATOM	2068	CA	SER	267	6.616	-45.646	9.138	1.00 67.25	C
ATOM	2069	CB	SER	267	5.901	-46.457	10.224	1.00 67.25	C
ATOM	2070	OG	SER	267	6.016	-45.780	11.466	1.00 67.25	O
ATOM	2071	C	SER	267	6.624	-46.452	7.881	1.00 67.25	C
ATOM	2072	O	SER	267	7.408	-47.390	7.742	1.00 67.25	O
ATOM	2073	N	ALA	268	5.772	-46.085	6.912	1.00 52.17	N
ATOM	2074	CA	ALA	268	5.650	-46.831	5.695	1.00 52.17	C
ATOM	2075	CB	ALA	268	4.669	-46.199	4.694	1.00 52.17	C
ATOM	2076	C	ALA	268	6.989	-46.921	5.035	1.00 52.17	C
ATOM	2077	O	ALA	268	7.906	-46.151	5.319	1.00 52.17	O
ATOM	2078	N	GLN	269	7.126	-47.909	4.130	1.00 97.23	N
ATOM	2079	CA	GLN	269	8.376	-48.167	3.486	1.00 97.23	C
ATOM	2080	CB	GLN	269	8.344	-49.388	2.550	1.00 97.23	C
ATOM	2081	CG	GLN	269	8.030	-50.691	3.291	1.00 97.23	C
ATOM	2082	CD	GLN	269	8.070	-51.834	2.286	1.00 97.23	C
ATOM	2083	OE1	GLN	269	8.645	-51.709	1.206	1.00 97.23	O
ATOM	2084	NE2	GLN	269	7.450	-52.986	2.655	1.00 97.23	N
ATOM	2085	C	GLN	269	8.781	-46.966	2.707	1.00 97.23	C
ATOM	2086	O	GLN	269	7.959	-46.113	2.380	1.00 97.23	O
ATOM	2087	N	LYS	270	10.094	-46.854	2.433	1.00283.45	N
ATOM	2088	CA	LYS	270	10.591	-45.710	1.736	1.00283.45	C
ATOM	2089	CB	LYS	270	11.582	-44.917	2.601	1.00283.45	C
ATOM	2090	CG	LYS	270	10.956	-44.476	3.930	1.00283.45	C
ATOM	2091	CD	LYS	270	11.963	-44.112	5.024	1.00283.45	C
ATOM	2092	CE	LYS	270	11.322	-43.773	6.374	1.00283.45	C
ATOM	2093	NZ	LYS	270	10.540	-42.521	6.271	1.00283.45	N
ATOM	2094	C	LYS	270	11.284	-46.195	0.498	1.00283.45	C
ATOM	2095	O	LYS	270	11.874	-47.274	0.478	1.00283.45	O
ATOM	2096	N	ASP	271	11.169	-45.415	-0.595	1.00184.73	N
ATOM	2097	CA	ASP	271	11.786	-45.754	-1.845	1.00184.73	C
ATOM	2098	CB	ASP	271	10.852	-45.593	-3.055	1.00184.73	C
ATOM	2099	CG	ASP	271	9.841	-46.731	-3.019	1.00184.73	C
ATOM	2100	OD1	ASP	271	10.233	-47.858	-2.611	1.00184.73	O
ATOM	2101	OD2	ASP	271	8.663	-46.490	-3.391	1.00184.73	O
ATOM	2102	C	ASP	271	12.967	-44.865	-2.075	1.00184.73	C
ATOM	2103	O	ASP	271	13.540	-44.298	-1.146	1.00184.73	O
ATOM	2104	N	THR	272	13.349	-44.755	-3.366	1.00207.02	N
ATOM	2105	CA	THR	272	14.456	-43.964	-3.830	1.00207.02	C
ATOM	2106	CB	THR	272	15.677	-44.780	-4.149	1.00207.02	C
ATOM	2107	OG1	THR	272	16.794	-43.929	-4.363	1.00207.02	O
ATOM	2108	CG2	THR	272	15.400	-45.636	-5.398	1.00207.02	C
ATOM	2109	C	THR	272	14.017	-43.235	-5.083	1.00207.02	C
ATOM	2110	O	THR	272	12.829	-42.958	-5.228	1.00207.02	O
ATOM	2111	N	VAL	273	14.966	-42.912	-6.009	1.00244.01	N
ATOM	2112	CA	VAL	273	14.759	-42.101	-7.192	1.00244.01	C
ATOM	2113	CB	VAL	273	16.053	-41.601	-7.770	1.00244.01	C
ATOM	2114	CG1	VAL	273	16.672	-40.623	-6.760	1.00244.01	C
ATOM	2115	CG2	VAL	273	16.971	-42.797	-8.084	1.00244.01	C
ATOM	2116	C	VAL	273	13.988	-42.767	-8.306	1.00244.01	C
ATOM	2117	O	VAL	273	14.546	-43.366	-9.225	1.00244.01	O
ATOM	2118	N	ALA	274	12.649	-42.632	-8.261	1.00 78.05	N
ATOM	2119	CA	ALA	274	11.743	-43.107	-9.273	1.00 78.05	C
ATOM	2120	CB	ALA	274	10.278	-43.062	-8.806	1.00 78.05	C
ATOM	2121	C	ALA	274	11.841	-42.276	-10.523	1.00 78.05	C

ATOM	2122	O	ALA	274	11.754	-42.798	-11.634	1.00	78.05	O
ATOM	2123	N	SER	275	11.999	-40.944	-10.369	1.00	81.41	N
ATOM	2124	CA	SER	275	12.002	-40.053	-11.500	1.00	81.41	C
ATOM	2125	CB	SER	275	12.105	-38.570	-11.123	1.00	81.41	C
ATOM	2126	OG	SER	275	12.078	-37.765	-12.293	1.00	81.41	O
ATOM	2127	C	SER	275	13.183	-40.359	-12.351	1.00	81.41	C
ATOM	2128	O	SER	275	13.137	-40.202	-13.570	1.00	81.41	O
ATOM	2129	N	VAL	276	14.288	-40.790	-11.724	1.00	42.26	N
ATOM	2130	CA	VAL	276	15.457	-41.099	-12.486	1.00	42.26	C
ATOM	2131	CB	VAL	276	16.610	-41.511	-11.616	1.00	42.26	C
ATOM	2132	CG1	VAL	276	17.813	-41.838	-12.511	1.00	42.26	C
ATOM	2133	CG2	VAL	276	16.876	-40.398	-10.594	1.00	42.26	C
ATOM	2134	C	VAL	276	15.122	-42.255	-13.384	1.00	42.26	C
ATOM	2135	O	VAL	276	15.404	-42.226	-14.580	1.00	42.26	O
ATOM	2136	N	MET	277	14.473	-43.303	-12.830	1.00145.52		N
ATOM	2137	CA	MET	277	14.165	-44.496	-13.576	1.00145.52		C
ATOM	2138	CB	MET	277	13.519	-45.586	-12.699	1.00145.52		C
ATOM	2139	CG	MET	277	13.377	-46.963	-13.360	1.00145.52		C
ATOM	2140	SD	MET	277	12.153	-47.077	-14.699	1.00145.52		S
ATOM	2141	CE	MET	277	12.151	-48.894	-14.725	1.00145.52		C
ATOM	2142	C	MET	277	13.220	-44.183	-14.695	1.00145.52		C
ATOM	2143	O	MET	277	13.391	-44.664	-15.814	1.00145.52		O
ATOM	2144	N	TYR	278	12.203	-43.347	-14.423	1.00118.64		N
ATOM	2145	CA	TYR	278	11.224	-43.007	-15.413	1.00118.64		C
ATOM	2146	CB	TYR	278	10.041	-42.186	-14.869	1.00118.64		C
ATOM	2147	CG	TYR	278	9.122	-43.126	-14.158	1.00118.64		C
ATOM	2148	CD1	TYR	278	9.337	-43.510	-12.852	1.00118.64		C
ATOM	2149	CD2	TYR	278	8.024	-43.631	-14.817	1.00118.64		C
ATOM	2150	CE1	TYR	278	8.468	-44.377	-12.226	1.00118.64		C
ATOM	2151	CE2	TYR	278	7.152	-44.496	-14.200	1.00118.64		C
ATOM	2152	CZ	TYR	278	7.375	-44.872	-12.899	1.00118.64		C
ATOM	2153	OH	TYR	278	6.481	-45.760	-12.264	1.00118.64		O
ATOM	2154	C	TYR	278	11.865	-42.268	-16.547	1.00118.64		C
ATOM	2155	O	TYR	278	11.439	-42.399	-17.693	1.00118.64		O
ATOM	2156	N	THR	279	12.921	-41.484	-16.270	1.00123.12		N
ATOM	2157	CA	THR	279	13.517	-40.655	-17.283	1.00123.12		C
ATOM	2158	CB	THR	279	14.697	-39.842	-16.831	1.00123.12		C
ATOM	2159	OG1	THR	279	14.912	-38.766	-17.734	1.00123.12		O
ATOM	2160	CG2	THR	279	15.941	-40.744	-16.816	1.00123.12		C
ATOM	2161	C	THR	279	13.979	-41.509	-18.421	1.00123.12		C
ATOM	2162	O	THR	279	14.091	-41.033	-19.547	1.00123.12		O
ATOM	2163	N	VAL	280	14.273	-42.793	-18.158	1.00	50.90	N
ATOM	2164	CA	VAL	280	14.738	-43.702	-19.168	1.00	50.90	C
ATOM	2165	CB	VAL	280	14.931	-45.091	-18.635	1.00	50.90	C
ATOM	2166	CG1	VAL	280	15.347	-46.011	-19.793	1.00	50.90	C
ATOM	2167	CG2	VAL	280	15.950	-45.036	-17.483	1.00	50.90	C
ATOM	2168	C	VAL	280	13.716	-43.764	-20.269	1.00	50.90	C
ATOM	2169	O	VAL	280	14.042	-44.070	-21.414	1.00	50.90	O
ATOM	2170	N	VAL	281	12.435	-43.510	-19.948	1.00102.89		N
ATOM	2171	CA	VAL	281	11.388	-43.535	-20.934	1.00102.89		C
ATOM	2172	CB	VAL	281	10.016	-43.331	-20.364	1.00102.89		C
ATOM	2173	CG1	VAL	281	9.883	-41.876	-19.890	1.00102.89		C
ATOM	2174	CG2	VAL	281	8.988	-43.738	-21.432	1.00102.89		C
ATOM	2175	C	VAL	281	11.649	-42.451	-21.936	1.00102.89		C
ATOM	2176	O	VAL	281	11.173	-42.504	-23.070	1.00102.89		O
ATOM	2177	N	THR	282	12.422	-41.428	-21.538	1.00	79.13	N
ATOM	2178	CA	THR	282	12.708	-40.311	-22.391	1.00	79.13	C
ATOM	2179	CB	THR	282	13.659	-39.351	-21.732	1.00	79.13	C
ATOM	2180	OG1	THR	282	13.091	-38.856	-20.528	1.00	79.13	O
ATOM	2181	CG2	THR	282	13.954	-38.190	-22.684	1.00	79.13	C
ATOM	2182	C	THR	282	13.302	-40.837	-23.668	1.00	79.13	C
ATOM	2183	O	THR	282	13.159	-40.208	-24.715	1.00	79.13	O
ATOM	2184	N	PRO	283	14.089	-41.875	-23.596	1.00193.44		N
ATOM	2185	CA	PRO	283	14.519	-42.522	-24.815	1.00193.44		C
ATOM	2186	CD	PRO	283	15.179	-41.807	-22.630	1.00193.44		C
ATOM	2187	CB	PRO	283	15.863	-43.176	-24.501	1.00193.44		C
ATOM	2188	CG	PRO	283	16.428	-42.330	-23.351	1.00193.44		C
ATOM	2189	C	PRO	283	13.559	-43.493	-25.449	1.00193.44		C
ATOM	2190	O	PRO	283	13.853	-43.912	-26.561	1.00193.44		O
ATOM	2191	N	MET	284	12.538	-44.009	-24.730	1.00114.64		N
ATOM	2192	CA	MET	284	11.571	-44.938	-25.276	1.00114.64		C
ATOM	2193	CB	MET	284	10.828	-45.682	-24.152	1.00114.64		C
ATOM	2194	CG	MET	284	9.931	-46.831	-24.612	1.00114.64		C
ATOM	2195	SD	MET	284	9.090	-47.697	-23.251	1.00114.64		S
ATOM	2196	CE	MET	284	8.506	-49.078	-24.274	1.00114.64		C
ATOM	2197	C	MET	284	10.536	-44.288	-26.147	1.00114.64		C
ATOM	2198	O	MET	284	10.258	-44.730	-27.261	1.00114.64		O

ATOM	2199	N	LEU	285	9.958	-43.186	-25.647	1.00	72.14	N
ATOM	2200	CA	LEU	285	8.869	-42.499	-26.274	1.00	72.14	C
ATOM	2201	CB	LEU	285	8.338	-41.370	-25.383	1.00	72.14	C
ATOM	2202	CG	LEU	285	7.839	-41.912	-24.031	1.00	72.14	C
ATOM	2203	CD1	LEU	285	7.301	-40.796	-23.129	1.00	72.14	C
ATOM	2204	CD2	LEU	285	6.822	-43.044	-24.227	1.00	72.14	C
ATOM	2205	C	LEU	285	9.361	-41.915	-27.548	1.00	72.14	C
ATOM	2206	O	LEU	285	8.605	-41.747	-28.504	1.00	72.14	O
ATOM	2207	N	ASN	286	10.651	-41.552	-27.569	1.00	76.59	N
ATOM	2208	CA	ASN	286	11.223	-40.927	-28.721	1.00	76.59	C
ATOM	2209	CB	ASN	286	12.683	-40.485	-28.484	1.00	76.59	C
ATOM	2210	CG	ASN	286	13.212	-39.830	-29.748	1.00	76.59	C
ATOM	2211	OD1	ASN	286	13.369	-40.479	-30.781	1.00	76.59	O
ATOM	2212	ND2	ASN	286	13.504	-38.504	-29.666	1.00	76.59	N
ATOM	2213	C	ASN	286	11.144	-41.841	-29.914	1.00	76.59	C
ATOM	2214	O	ASN	286	10.627	-41.418	-30.946	1.00	76.59	O
ATOM	2215	N	PRO	287	11.594	-43.068	-29.858	1.00	100.78	N
ATOM	2216	CA	PRO	287	11.483	-43.926	-30.998	1.00	100.78	C
ATOM	2217	CD	PRO	287	12.740	-43.437	-29.068	1.00	100.78	C
ATOM	2218	CB	PRO	287	12.419	-45.114	-30.759	1.00	100.78	C
ATOM	2219	CG	PRO	287	12.897	-44.942	-29.309	1.00	100.78	C
ATOM	2220	C	PRO	287	10.068	-44.311	-31.250	1.00	100.78	C
ATOM	2221	O	PRO	287	9.757	-44.710	-32.368	1.00	100.78	O
ATOM	2222	N	PHE	288	9.200	-44.256	-30.227	1.00	105.99	N
ATOM	2223	CA	PHE	288	7.835	-44.603	-30.476	1.00	105.99	C
ATOM	2224	CB	PHE	288	6.979	-44.629	-29.197	1.00	105.99	C
ATOM	2225	CG	PHE	288	5.549	-44.825	-29.576	1.00	105.99	C
ATOM	2226	CD1	PHE	288	5.114	-46.021	-30.097	1.00	105.99	C
ATOM	2227	CD2	PHE	288	4.633	-43.815	-29.381	1.00	105.99	C
ATOM	2228	CE1	PHE	288	3.794	-46.199	-30.438	1.00	105.99	C
ATOM	2229	CE2	PHE	288	3.311	-43.987	-29.718	1.00	105.99	C
ATOM	2230	CZ	PHE	288	2.889	-45.181	-30.251	1.00	105.99	C
ATOM	2231	C	PHE	288	7.247	-43.595	-31.404	1.00	105.99	C
ATOM	2232	O	PHE	288	6.659	-43.947	-32.423	1.00	105.99	O
ATOM	2233	N	ILE	289	7.402	-42.298	-31.086	1.00	95.27	N
ATOM	2234	CA	ILE	289	6.832	-41.294	-31.936	1.00	95.27	C
ATOM	2235	CB	ILE	289	6.854	-39.907	-31.356	1.00	95.27	C
ATOM	2236	CG2	ILE	289	6.592	-38.917	-32.504	1.00	95.27	C
ATOM	2237	CG1	ILE	289	5.823	-39.786	-30.218	1.00	95.27	C
ATOM	2238	CD1	ILE	289	6.112	-40.676	-29.012	1.00	95.27	C
ATOM	2239	C	ILE	289	7.530	-41.284	-33.256	1.00	95.27	C
ATOM	2240	O	ILE	289	6.883	-41.183	-34.296	1.00	95.27	O
ATOM	2241	N	TYR	290	8.872	-41.396	-33.252	1.00	68.11	N
ATOM	2242	CA	TYR	290	9.615	-41.370	-34.480	1.00	68.11	C
ATOM	2243	CB	TYR	290	11.142	-41.380	-34.272	1.00	68.11	C
ATOM	2244	CG	TYR	290	11.544	-39.981	-33.934	1.00	68.11	C
ATOM	2245	CD1	TYR	290	11.156	-39.381	-32.757	1.00	68.11	C
ATOM	2246	CD2	TYR	290	12.337	-39.268	-34.805	1.00	68.11	C
ATOM	2247	CE1	TYR	290	11.538	-38.088	-32.467	1.00	68.11	C
ATOM	2248	CE2	TYR	290	12.722	-37.979	-34.522	1.00	68.11	C
ATOM	2249	CZ	TYR	290	12.321	-37.385	-33.351	1.00	68.11	C
ATOM	2250	OH	TYR	290	12.714	-36.062	-33.059	1.00	68.11	O
ATOM	2251	C	TYR	290	9.222	-42.540	-35.315	1.00	68.11	C
ATOM	2252	O	TYR	290	9.069	-42.425	-36.531	1.00	68.11	O
ATOM	2253	N	SER	291	9.041	-43.703	-34.672	1.00	44.99	N
ATOM	2254	CA	SER	291	8.677	-44.896	-35.368	1.00	44.99	C
ATOM	2255	CB	SER	291	8.683	-46.146	-34.466	1.00	44.99	C
ATOM	2256	OG	SER	291	7.656	-46.069	-33.491	1.00	44.99	O
ATOM	2257	C	SER	291	7.299	-44.726	-35.923	1.00	44.99	C
ATOM	2258	O	SER	291	6.913	-45.409	-36.871	1.00	44.99	O
ATOM	2259	N	LEU	292	6.525	-43.787	-35.353	1.00	129.39	N
ATOM	2260	CA	LEU	292	5.165	-43.582	-35.757	1.00	129.39	C
ATOM	2261	CB	LEU	292	4.455	-42.493	-34.934	1.00	129.39	C
ATOM	2262	CG	LEU	292	2.990	-42.270	-35.355	1.00	129.39	C
ATOM	2263	CD1	LEU	292	2.145	-43.530	-35.123	1.00	129.39	C
ATOM	2264	CD2	LEU	292	2.398	-41.023	-34.677	1.00	129.39	C
ATOM	2265	C	LEU	292	5.119	-43.167	-37.196	1.00	129.39	C
ATOM	2266	O	LEU	292	4.247	-43.610	-37.941	1.00	129.39	O
ATOM	2267	N	ARG	293	6.054	-42.304	-37.629	1.00	167.47	N
ATOM	2268	CA	ARG	293	6.016	-41.839	-38.985	1.00	167.47	C
ATOM	2269	CB	ARG	293	7.092	-40.781	-39.287	1.00	167.47	C
ATOM	2270	CG	ARG	293	6.776	-39.928	-40.518	1.00	167.47	C
ATOM	2271	CD	ARG	293	5.461	-39.148	-40.391	1.00	167.47	C
ATOM	2272	NE	ARG	293	5.390	-38.583	-39.012	1.00	167.47	N
ATOM	2273	CZ	ARG	293	5.859	-37.329	-38.746	1.00	167.47	C
ATOM	2274	NH1	ARG	293	6.400	-36.575	-39.748	1.00	167.47	N
ATOM	2275	NH2	ARG	293	5.779	-36.826	-37.479	1.00	167.47	N

ATOM	2276	C	ARG	293	6.221	-43.016	-39.888	1.00167.47	C
ATOM	2277	O	ARG	293	5.544	-43.146	-40.906	1.00167.47	O
ATOM	2278	N	ASN	294	7.162	-43.915	-39.533	1.00 53.26	N
ATOM	2279	CA	ASN	294	7.406	-45.071	-40.351	1.00 53.26	C
ATOM	2280	CB	ASN	294	8.680	-45.841	-39.957	1.00 53.26	C
ATOM	2281	CG	ASN	294	9.893	-44.981	-40.276	1.00 53.26	C
ATOM	2282	OD1	ASN	294	10.510	-45.120	-41.331	1.00 53.26	O
ATOM	2283	ND2	ASN	294	10.250	-44.063	-39.337	1.00 53.26	N
ATOM	2284	C	ASN	294	6.258	-46.018	-40.175	1.00 53.26	C
ATOM	2285	O	ASN	294	5.837	-46.300	-39.055	1.00 53.26	O
ATOM	2286	N	GLN	295	5.683	-46.489	-41.297	1.00107.09	N
ATOM	2287	CA	GLN	295	4.602	-47.432	-41.270	1.00107.09	C
ATOM	2288	CB	GLN	295	3.868	-47.518	-42.619	1.00107.09	C
ATOM	2289	CG	GLN	295	3.226	-46.191	-43.038	1.00107.09	C
ATOM	2290	CD	GLN	295	4.335	-45.237	-43.457	1.00107.09	C
ATOM	2291	OE1	GLN	295	4.398	-44.098	-42.999	1.00107.09	O
ATOM	2292	NE2	GLN	295	5.237	-45.713	-44.357	1.00107.09	N
ATOM	2293	C	GLN	295	5.099	-48.809	-40.927	1.00107.09	C
ATOM	2294	O	GLN	295	4.454	-49.541	-40.178	1.00107.09	O
ATOM	2295	N	GLU	296	6.280	-49.187	-41.458	1.00125.43	N
ATOM	2296	CA	GLU	296	6.786	-50.535	-41.366	1.00125.43	C
ATOM	2297	CB	GLU	296	8.173	-50.663	-42.018	1.00125.43	C
ATOM	2298	CG	GLU	296	8.788	-52.061	-41.923	1.00125.43	C
ATOM	2299	CD	GLU	296	8.286	-52.884	-43.098	1.00125.43	C
ATOM	2300	OE1	GLU	296	7.054	-52.856	-43.359	1.00125.43	O
ATOM	2301	OE2	GLU	296	9.130	-53.557	-43.748	1.00125.43	O
ATOM	2302	C	GLU	296	6.969	-50.977	-39.951	1.00125.43	C
ATOM	2303	O	GLU	296	6.502	-52.041	-39.549	1.00125.43	O
ATOM	2304	N	ILE	297	7.647	-50.145	-39.154	1.00133.27	N
ATOM	2305	CA	ILE	297	7.999	-50.451	-37.803	1.00133.27	C
ATOM	2306	CB	ILE	297	9.016	-49.483	-37.286	1.00133.27	C
ATOM	2307	CG2	ILE	297	10.334	-49.732	-38.041	1.00133.27	C
ATOM	2308	CG1	ILE	297	8.515	-48.046	-37.420	1.00133.27	C
ATOM	2309	CD1	ILE	297	9.630	-47.061	-37.100	1.00133.27	C
ATOM	2310	C	ILE	297	6.787	-50.586	-36.932	1.00133.27	C
ATOM	2311	O	ILE	297	6.785	-51.374	-35.987	1.00133.27	O
ATOM	2312	N	LYS	298	5.718	-49.833	-37.232	1.00 97.35	N
ATOM	2313	CA	LYS	298	4.549	-49.804	-36.401	1.00 97.35	C
ATOM	2314	CB	LYS	298	3.439	-48.969	-37.055	1.00 97.35	C
ATOM	2315	CG	LYS	298	2.235	-48.692	-36.158	1.00 97.35	C
ATOM	2316	CD	LYS	298	1.245	-47.718	-36.799	1.00 97.35	C
ATOM	2317	CE	LYS	298	0.072	-47.338	-35.894	1.00 97.35	C
ATOM	2318	NZ	LYS	298	0.386	-46.086	-35.171	1.00 97.35	N
ATOM	2319	C	LYS	298	3.977	-51.173	-36.194	1.00 97.35	C
ATOM	2320	O	LYS	298	3.794	-51.595	-35.052	1.00 97.35	O
ATOM	2321	N	SER	299	3.699	-51.919	-37.280	1.00106.37	N
ATOM	2322	CA	SER	299	3.065	-53.192	-37.096	1.00106.37	C
ATOM	2323	CB	SER	299	2.771	-53.918	-38.421	1.00106.37	C
ATOM	2324	OG	SER	299	3.975	-54.172	-39.128	1.00106.37	O
ATOM	2325	C	SER	299	3.966	-54.039	-36.275	1.00106.37	C
ATOM	2326	O	SER	299	3.611	-54.473	-35.181	1.00106.37	O
ATOM	2327	N	SER	300	5.189	-54.276	-36.764	1.00169.44	N
ATOM	2328	CA	SER	300	6.040	-55.055	-35.935	1.00169.44	C
ATOM	2329	CB	SER	300	6.613	-56.304	-36.625	1.00169.44	C
ATOM	2330	OG	SER	300	5.569	-57.212	-36.943	1.00169.44	O
ATOM	2331	C	SER	300	7.178	-54.185	-35.575	1.00169.44	C
ATOM	2332	O	SER	300	8.008	-53.850	-36.417	1.00169.44	O
ATOM	2333	N	LEU	301	7.253	-53.788	-34.295	1.00223.41	N
ATOM	2334	CA	LEU	301	8.394	-53.012	-33.954	1.00223.41	C
ATOM	2335	CB	LEU	301	8.421	-52.513	-32.501	1.00223.41	C
ATOM	2336	CG	LEU	301	7.415	-51.385	-32.226	1.00223.41	C
ATOM	2337	CD1	LEU	301	7.817	-50.100	-32.967	1.00223.41	C
ATOM	2338	CD2	LEU	301	5.977	-51.826	-32.541	1.00223.41	C
ATOM	2339	C	LEU	301	9.516	-53.954	-34.128	1.00223.41	C
ATOM	2340	O	LEU	301	9.345	-55.158	-33.934	1.00223.41	O
ATOM	2341	N	ARG	302	10.675	-53.434	-34.563	1.00122.62	N
ATOM	2342	CA	ARG	302	11.785	-54.312	-34.718	1.00122.62	C
ATOM	2343	CB	ARG	302	13.070	-53.554	-35.093	1.00122.62	C
ATOM	2344	CG	ARG	302	14.305	-54.445	-35.235	1.00122.62	C
ATOM	2345	CD	ARG	302	15.616	-53.660	-35.342	1.00122.62	C
ATOM	2346	NE	ARG	302	15.930	-53.123	-33.987	1.00122.62	N
ATOM	2347	CZ	ARG	302	15.533	-51.864	-33.640	1.00122.62	C
ATOM	2348	NH1	ARG	302	14.886	-51.080	-34.551	1.00122.62	N
ATOM	2349	NH2	ARG	302	15.786	-51.390	-32.385	1.00122.62	N
ATOM	2350	C	ARG	302	12.001	-54.882	-33.365	1.00122.62	C
ATOM	2351	O	ARG	302	12.059	-56.097	-33.184	1.00122.62	O
ATOM	2352	N	LYS	303	12.107	-53.990	-32.368	1.00110.98	N

ATOM	2353	CA	LYS	303	12.290	-54.465	-31.036	1.00110.98	C
ATOM	2354	CB	LYS	303	12.724	-53.364	-30.054	1.00110.98	C
ATOM	2355	CG	LYS	303	13.008	-53.885	-28.644	1.00110.98	C
ATOM	2356	CD	LYS	303	13.777	-52.890	-27.773	1.00110.98	C
ATOM	2357	CE	LYS	303	14.023	-53.391	-26.349	1.00110.98	C
ATOM	2358	NZ	LYS	303	14.864	-52.426	-25.607	1.00110.98	N
ATOM	2359	C	LYS	303	11.029	-55.062	-30.493	1.00110.98	C
ATOM	2360	O	LYS	303	11.028	-56.193	-30.011	1.00110.98	O
ATOM	2361	N	LEU	304	9.907	-54.315	-30.576	1.00181.17	N
ATOM	2362	CA	LEU	304	8.735	-54.753	-29.870	1.00181.17	C
ATOM	2363	CB	LEU	304	7.623	-53.695	-29.846	1.00181.17	C
ATOM	2364	CG	LEU	304	8.015	-52.428	-29.069	1.00181.17	C
ATOM	2365	CD1	LEU	304	6.837	-51.443	-28.989	1.00181.17	C
ATOM	2366	CD2	LEU	304	8.601	-52.781	-27.692	1.00181.17	C
ATOM	2367	C	LEU	304	8.117	-56.002	-30.401	1.00181.17	C
ATOM	2368	O	LEU	304	8.037	-57.007	-29.697	1.00181.17	O
ATOM	2369	N	ILE	305	7.683	-55.993	-31.673	1.00102.75	N
ATOM	2370	CA	ILE	305	6.949	-57.137	-32.127	1.00102.75	C
ATOM	2371	CB	ILE	305	6.260	-56.920	-33.441	1.00102.75	C
ATOM	2372	CG2	ILE	305	5.747	-58.280	-33.948	1.00102.75	C
ATOM	2373	CG1	ILE	305	5.143	-55.881	-33.258	1.00102.75	C
ATOM	2374	CD1	ILE	305	4.063	-56.330	-32.275	1.00102.75	C
ATOM	2375	C	ILE	305	7.827	-58.334	-32.236	1.00102.75	C
ATOM	2376	O	ILE	305	7.483	-59.409	-31.750	1.00102.75	O
ATOM	2377	N	TRP	306	9.007	-58.171	-32.855	1.00146.62	N
ATOM	2378	CA	TRP	306	9.832	-59.314	-33.093	1.00146.62	C
ATOM	2379	CB	TRP	306	11.118	-58.951	-33.858	1.00146.62	C
ATOM	2380	CG	TRP	306	12.027	-60.119	-34.140	1.00146.62	C
ATOM	2381	CD2	TRP	306	11.835	-61.033	-35.236	1.00146.62	C
ATOM	2382	CD1	TRP	306	13.131	-60.549	-33.468	1.00146.62	C
ATOM	2383	NE1	TRP	306	13.647	-61.667	-34.075	1.00146.62	N
ATOM	2384	CE2	TRP	306	12.857	-61.976	-35.166	1.00146.62	C
ATOM	2385	CE3	TRP	306	10.882	-61.080	-36.213	1.00146.62	C
ATOM	2386	CZ2	TRP	306	12.946	-62.989	-36.079	1.00146.62	C
ATOM	2387	CZ3	TRP	306	10.978	-62.100	-37.136	1.00146.62	C
ATOM	2388	CH2	TRP	306	11.991	-63.035	-37.070	1.00146.62	C
ATOM	2389	C	TRP	306	10.226	-59.923	-31.789	1.00146.62	C
ATOM	2390	O	TRP	306	10.000	-61.109	-31.556	1.00146.62	O
ATOM	2391	N	VAL	307	10.791	-59.109	-30.881	1.00 67.18	N
ATOM	2392	CA	VAL	307	11.298	-59.678	-29.667	1.00 67.18	C
ATOM	2393	CB	VAL	307	11.973	-58.687	-28.766	1.00 67.18	C
ATOM	2394	CG1	VAL	307	12.339	-59.404	-27.453	1.00 67.18	C
ATOM	2395	CG2	VAL	307	13.182	-58.093	-29.508	1.00 67.18	C
ATOM	2396	C	VAL	307	10.185	-60.287	-28.890	1.00 67.18	C
ATOM	2397	O	VAL	307	10.258	-61.449	-28.495	1.00 67.18	O
ATOM	2398	N	ARG	308	9.100	-59.527	-28.669	1.00228.48	N
ATOM	2399	CA	ARG	308	8.046	-60.094	-27.894	1.00228.48	C
ATOM	2400	CB	ARG	308	7.345	-59.059	-26.994	1.00228.48	C
ATOM	2401	CG	ARG	308	8.324	-58.356	-26.047	1.00228.48	C
ATOM	2402	CD	ARG	308	8.974	-59.284	-25.016	1.00228.48	C
ATOM	2403	NE	ARG	308	10.036	-58.510	-24.312	1.00228.48	N
ATOM	2404	CZ	ARG	308	10.379	-58.834	-23.030	1.00228.48	C
ATOM	2405	NH1	ARG	308	9.721	-59.837	-22.380	1.00228.48	N
ATOM	2406	NH2	ARG	308	11.381	-58.155	-22.399	1.00228.48	N
ATOM	2407	C	ARG	308	7.062	-60.613	-28.877	1.00228.48	C
ATOM	2408	O	ARG	308	6.253	-59.864	-29.421	1.00228.48	O
ATOM	2409	N	LYS	309	7.094	-61.933	-29.128	1.00167.96	N
ATOM	2410	CA	LYS	309	6.181	-62.416	-30.110	1.00167.96	C
ATOM	2411	CB	LYS	309	6.417	-63.874	-30.546	1.00167.96	C
ATOM	2412	CG	LYS	309	7.639	-64.042	-31.451	1.00167.96	C
ATOM	2413	CD	LYS	309	7.988	-65.503	-31.737	1.00167.96	C
ATOM	2414	CE	LYS	309	9.085	-65.686	-32.789	1.00167.96	C
ATOM	2415	NZ	LYS	309	9.288	-67.126	-33.061	1.00167.96	N
ATOM	2416	C	LYS	309	4.829	-62.309	-29.515	1.00167.96	C
ATOM	2417	O	LYS	309	4.446	-63.080	-28.637	1.00167.96	O
ATOM	2418	N	ILE	310	4.076	-61.305	-29.988	1.00109.67	N
ATOM	2419	CA	ILE	310	2.751	-61.118	-29.500	1.00109.67	C
ATOM	2420	CB	ILE	310	2.067	-59.902	-30.073	1.00109.67	C
ATOM	2421	CG2	ILE	310	2.837	-58.666	-29.584	1.00109.67	C
ATOM	2422	CG1	ILE	310	1.922	-59.993	-31.607	1.00109.67	C
ATOM	2423	CD1	ILE	310	0.992	-58.942	-32.216	1.00109.67	C
ATOM	2424	C	ILE	310	1.980	-62.322	-29.902	1.00109.67	C
ATOM	2425	O	ILE	310	1.239	-62.889	-29.103	1.00109.67	O
ATOM	2426	N	HIS	311	2.162	-62.763	-31.161	1.00117.79	N
ATOM	2427	CA	HIS	311	1.416	-63.890	-31.619	1.00117.79	C
ATOM	2428	ND1	HIS	311	-1.693	-64.929	-31.496	1.00117.79	N
ATOM	2429	CG	HIS	311	-0.841	-64.592	-32.524	1.00117.79	C

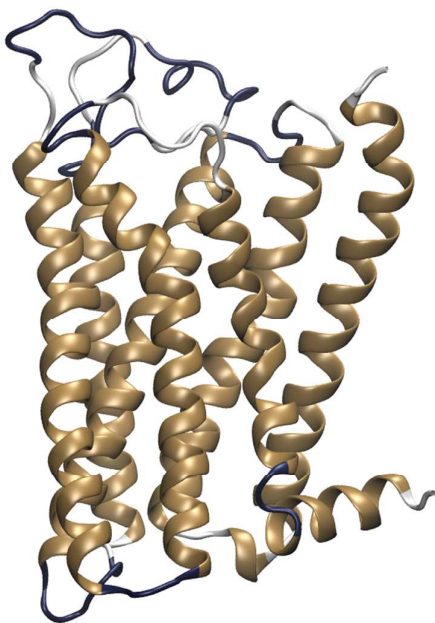
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ATOM	2430	CB	HIS	311	0.166	-63.488	-32.420	1.00117.79	C
ATOM	2431	NE2	HIS	311	-2.137	-66.321	-33.171	1.00117.79	N
ATOM	2432	CD2	HIS	311	-1.127	-65.450	-33.541	1.00117.79	C
ATOM	2433	CE1	HIS	311	-2.444	-65.969	-31.935	1.00117.79	C
ATOM	2434	C	HIS	311	2.307	-64.672	-32.526	1.00117.79	C
ATOM	2435	O	HIS	311	3.387	-64.215	-32.897	1.00117.79	O
ATOM	2436	N	SER	312	1.876	-65.896	-32.889	1.00167.71	N
ATOM	2437	CA	SER	312	2.676	-66.707	-33.755	1.00167.71	C
ATOM	2438	CB	SER	312	3.150	-68.020	-33.114	1.00167.71	C
ATOM	2439	OG	SER	312	4.099	-67.743	-32.096	1.00167.71	O
ATOM	2440	C	SER	312	1.836	-67.082	-34.923	1.00167.71	C
ATOM	2441	O	SER	312	0.618	-67.235	-34.831	1.00167.71	O
ATOM	2442	N	PRO	313	2.498	-67.214	-36.033	1.00140.94	N
ATOM	2443	CA	PRO	313	1.796	-67.585	-37.228	1.00140.94	C
ATOM	2444	CD	PRO	313	3.591	-66.295	-36.313	1.00140.94	C
ATOM	2445	CB	PRO	313	2.683	-67.150	-38.393	1.00140.94	C
ATOM	2446	CG	PRO	313	3.491	-65.977	-37.812	1.00140.94	C
ATOM	2447	C	PRO	313	1.509	-69.048	-37.220	1.00140.94	C
ATOM	2448	O	PRO	313	1.558	-69.655	-38.323	1.00140.94	O
ATOM	2449	OXT	PRO	313	1.220	-69.599	-36.124	1.00140.94	O
TER	2450		PRO	313					
END									

PDB and structure of OR1G1 built by homology modeling using beta 2 adrenergic receptor (PDB ID 2RH1) as template.



ATOM	1	N	MET	1	-44.518	-5.502	51.513	1.00133.77	N
ATOM	2	CA	MET	1	-43.317	-5.603	52.374	1.00133.77	C
ATOM	3	CB	MET	1	-42.892	-4.209	52.876	1.00133.77	C
ATOM	4	CG	MET	1	-43.734	-3.612	54.013	1.00133.77	C
ATOM	5	SD	MET	1	-45.417	-3.061	53.589	1.00133.77	S
ATOM	6	CE	MET	1	-46.230	-4.670	53.814	1.00133.77	C
ATOM	7	C	MET	1	-43.576	-6.469	53.561	1.00133.77	C
ATOM	8	O	MET	1	-42.796	-6.482	54.512	1.00133.77	O
ATOM	9	N	GLU	2	-44.682	-7.233	53.528	1.00243.12	N
ATOM	10	CA	GLU	2	-45.011	-8.073	54.638	1.00243.12	C
ATOM	11	CB	GLU	2	-46.442	-8.629	54.594	1.00243.12	C
ATOM	12	CG	GLU	2	-46.912	-9.114	55.962	1.00243.12	C
ATOM	13	CD	GLU	2	-47.103	-7.850	56.782	1.00243.12	C
ATOM	14	OE1	GLU	2	-47.894	-6.979	56.333	1.00243.12	O
ATOM	15	OE2	GLU	2	-46.461	-7.732	57.859	1.00243.12	O
ATOM	16	C	GLU	2	-44.080	-9.238	54.625	1.00243.12	C
ATOM	17	O	GLU	2	-43.596	-9.648	53.571	1.00243.12	O
ATOM	18	N	GLY	3	-43.804	-9.809	55.813	1.00 86.84	N
ATOM	19	CA	GLY	3	-42.914	-10.930	55.860	1.00 86.84	C
ATOM	20	C	GLY	3	-43.576	-12.010	55.080	1.00 86.84	C
ATOM	21	O	GLY	3	-44.802	-12.070	55.005	1.00 86.84	O
ATOM	22	N	LYS	4	-42.776	-12.902	54.469	1.00216.51	N
ATOM	23	CA	LYS	4	-43.410	-13.895	53.666	1.00216.51	C
ATOM	24	CB	LYS	4	-42.484	-14.582	52.649	1.00216.51	C
ATOM	25	CG	LYS	4	-43.241	-15.529	51.714	1.00216.51	C
ATOM	26	CD	LYS	4	-42.487	-15.865	50.428	1.00216.51	C
ATOM	27	CE	LYS	4	-42.555	-14.745	49.387	1.00216.51	C
ATOM	28	NZ	LYS	4	-41.738	-15.095	48.204	1.00216.51	N
ATOM	29	C	LYS	4	-43.985	-14.944	54.549	1.00216.51	C
ATOM	30	O	LYS	4	-43.293	-15.556	55.361	1.00216.51	O
ATOM	31	N	ASN	5	-45.303	-15.147	54.395	1.00215.17	N
ATOM	32	CA	ASN	5	-46.045	-16.164	55.068	1.00215.17	C
ATOM	33	CB	ASN	5	-46.996	-15.623	56.148	1.00215.17	C
ATOM	34	CG	ASN	5	-46.116	-15.076	57.263	1.00215.17	C
ATOM	35	OD1	ASN	5	-45.368	-15.813	57.903	1.00215.17	O
ATOM	36	ND2	ASN	5	-46.191	-13.737	57.492	1.00215.17	N
ATOM	37	C	ASN	5	-46.857	-16.743	53.968	1.00215.17	C
ATOM	38	O	ASN	5	-46.827	-16.219	52.854	1.00215.17	O
ATOM	39	N	LEU	6	-47.588	-17.845	54.198	1.00234.94	N
ATOM	40	CA	LEU	6	-48.281	-18.288	53.031	1.00234.94	C

ATOM	41	CB	LEU	6	-48.773	-19.750	53.088	1.00234.94	C
ATOM	42	CG	LEU	6	-49.144	-20.348	51.709	1.00234.94	C
ATOM	43	CD1	LEU	6	-49.708	-21.770	51.850	1.00234.94	C
ATOM	44	CD2	LEU	6	-50.050	-19.429	50.875	1.00234.94	C
ATOM	45	C	LEU	6	-49.468	-17.391	52.910	1.00234.94	C
ATOM	46	O	LEU	6	-50.496	-17.595	53.553	1.00234.94	O
ATOM	47	N	THR	7	-49.324	-16.353	52.068	1.00268.22	N
ATOM	48	CA	THR	7	-50.361	-15.401	51.816	1.00268.22	C
ATOM	49	CB	THR	7	-50.222	-14.122	52.592	1.00268.22	C
ATOM	50	OG1	THR	7	-49.048	-13.432	52.192	1.00268.22	O
ATOM	51	CG2	THR	7	-50.163	-14.449	54.095	1.00268.22	C
ATOM	52	C	THR	7	-50.200	-15.035	50.382	1.00268.22	C
ATOM	53	O	THR	7	-49.434	-15.668	49.657	1.00268.22	O
ATOM	54	N	SER	8	-50.936	-14.008	49.922	1.00158.50	N
ATOM	55	CA	SER	8	-50.751	-13.607	48.563	1.00158.50	C
ATOM	56	CB	SER	8	-51.833	-12.641	48.046	1.00158.50	C
ATOM	57	OG	SER	8	-53.082	-13.316	47.955	1.00158.50	O
ATOM	58	C	SER	8	-49.416	-12.938	48.511	1.00158.50	C
ATOM	59	O	SER	8	-48.882	-12.519	49.537	1.00158.50	O
ATOM	60	N	ILE	9	-48.825	-12.838	47.305	1.00100.13	N
ATOM	61	CA	ILE	9	-47.517	-12.260	47.207	1.00100.13	C
ATOM	62	CB	ILE	9	-46.575	-13.053	46.344	1.00100.13	C
ATOM	63	CG2	ILE	9	-45.230	-12.307	46.319	1.00100.13	C
ATOM	64	CG1	ILE	9	-46.448	-14.498	46.856	1.00100.13	C
ATOM	65	CD1	ILE	9	-45.847	-14.596	48.255	1.00100.13	C
ATOM	66	C	ILE	9	-47.675	-10.933	46.543	1.00100.13	C
ATOM	67	O	ILE	9	-48.429	-10.796	45.582	1.00100.13	O
ATOM	68	N	SER	10	-46.997	-9.897	47.074	1.00156.83	N
ATOM	69	CA	SER	10	-47.086	-8.620	46.431	1.00156.83	C
ATOM	70	CB	SER	10	-46.603	-7.450	47.306	1.00156.83	C
ATOM	71	OG	SER	10	-46.725	-6.225	46.596	1.00156.83	O
ATOM	72	C	SER	10	-46.206	-8.698	45.228	1.00156.83	C
ATOM	73	O	SER	10	-45.110	-9.251	45.286	1.00156.83	O
ATOM	74	N	GLU	11	-46.664	-8.147	44.090	1.00288.80	N
ATOM	75	CA	GLU	11	-45.857	-8.268	42.915	1.00288.80	C
ATOM	76	CB	GLU	11	-46.191	-9.538	42.120	1.00288.80	C
ATOM	77	CG	GLU	11	-45.536	-9.620	40.744	1.00288.80	C
ATOM	78	CD	GLU	11	-46.113	-10.855	40.073	1.00288.80	C
ATOM	79	OE1	GLU	11	-46.589	-11.755	40.813	1.00288.80	O
ATOM	80	OE2	GLU	11	-46.090	-10.915	38.813	1.00288.80	O
ATOM	81	C	GLU	11	-46.135	-7.110	42.019	1.00288.80	C
ATOM	82	O	GLU	11	-47.243	-6.576	41.998	1.00288.80	O
ATOM	83	N	CYS	12	-45.106	-6.670	41.271	1.00 92.28	N
ATOM	84	CA	CYS	12	-45.338	-5.652	40.294	1.00 92.28	C
ATOM	85	CB	CYS	12	-44.092	-4.836	39.911	1.00 92.28	C
ATOM	86	SG	CYS	12	-43.556	-3.722	41.244	1.00 92.28	S
ATOM	87	C	CYS	12	-45.818	-6.385	39.088	1.00 92.28	C
ATOM	88	O	CYS	12	-45.518	-7.565	38.915	1.00 92.28	O
ATOM	89	N	PHE	13	-46.596	-5.721	38.220	1.00284.45	N
ATOM	90	CA	PHE	13	-47.117	-6.494	37.138	1.00284.45	C
ATOM	91	CB	PHE	13	-48.624	-6.737	37.316	1.00284.45	C
ATOM	92	CG	PHE	13	-49.072	-7.864	36.453	1.00284.45	C
ATOM	93	CD1	PHE	13	-48.938	-9.162	36.893	1.00284.45	C
ATOM	94	CD2	PHE	13	-49.637	-7.630	35.224	1.00284.45	C
ATOM	95	CE1	PHE	13	-49.354	-10.213	36.110	1.00284.45	C
ATOM	96	CE2	PHE	13	-50.055	-8.677	34.436	1.00284.45	C
ATOM	97	CZ	PHE	13	-49.914	-9.969	34.880	1.00284.45	C
ATOM	98	C	PHE	13	-46.928	-5.728	35.870	1.00284.45	C
ATOM	99	O	PHE	13	-47.129	-4.515	35.828	1.00284.45	O
ATOM	100	N	LEU	14	-46.510	-6.426	34.799	1.00224.02	N
ATOM	101	CA	LEU	14	-46.421	-5.785	33.522	1.00224.02	C
ATOM	102	CB	LEU	14	-45.053	-5.896	32.828	1.00224.02	C
ATOM	103	CG	LEU	14	-43.958	-5.067	33.525	1.00224.02	C
ATOM	104	CD1	LEU	14	-42.639	-5.101	32.738	1.00224.02	C
ATOM	105	CD2	LEU	14	-44.437	-3.633	33.803	1.00224.02	C
ATOM	106	C	LEU	14	-47.438	-6.456	32.666	1.00224.02	C
ATOM	107	O	LEU	14	-47.543	-7.681	32.655	1.00224.02	O
ATOM	108	N	LEU	15	-48.229	-5.660	31.932	1.00197.32	N
ATOM	109	CA	LEU	15	-49.270	-6.246	31.147	1.00197.32	C
ATOM	110	CB	LEU	15	-50.516	-5.352	31.021	1.00197.32	C
ATOM	111	CG	LEU	15	-51.289	-5.148	32.336	1.00197.32	C
ATOM	112	CD1	LEU	15	-52.516	-4.247	32.124	1.00197.32	C
ATOM	113	CD2	LEU	15	-51.662	-6.497	32.969	1.00197.32	C
ATOM	114	C	LEU	15	-48.760	-6.458	29.764	1.00197.32	C
ATOM	115	O	LEU	15	-48.105	-5.592	29.188	1.00197.32	O
ATOM	116	N	GLY	16	-49.035	-7.652	29.210	1.00106.77	N
ATOM	117	CA	GLY	16	-48.705	-7.919	27.845	1.00106.77	C

ATOM	118	C	GLY	16	-47.316	-8.447	27.730	1.00106.77	C
ATOM	119	O	GLY	16	-46.522	-8.417	28.669	1.00106.77	O
ATOM	120	N	PHE	17	-47.020	-8.950	26.518	1.00287.82	N
ATOM	121	CA	PHE	17	-45.744	-9.462	26.129	1.00287.82	C
ATOM	122	CB	PHE	17	-45.894	-10.609	25.107	1.00287.82	C
ATOM	123	CG	PHE	17	-44.586	-11.249	24.785	1.00287.82	C
ATOM	124	CD1	PHE	17	-43.704	-10.666	23.903	1.00287.82	C
ATOM	125	CD2	PHE	17	-44.260	-12.464	25.343	1.00287.82	C
ATOM	126	CE1	PHE	17	-42.505	-11.274	23.612	1.00287.82	C
ATOM	127	CE2	PHE	17	-43.063	-13.076	25.055	1.00287.82	C
ATOM	128	CZ	PHE	17	-42.184	-12.483	24.182	1.00287.82	C
ATOM	129	C	PHE	17	-45.130	-8.304	25.423	1.00287.82	C
ATOM	130	O	PHE	17	-45.783	-7.673	24.594	1.00287.82	O
ATOM	131	N	SER	18	-43.872	-7.955	25.747	1.00167.70	N
ATOM	132	CA	SER	18	-43.352	-6.813	25.062	1.00167.70	C
ATOM	133	CB	SER	18	-41.992	-6.333	25.603	1.00167.70	C
ATOM	134	OG	SER	18	-41.548	-5.194	24.875	1.00167.70	O
ATOM	135	C	SER	18	-43.172	-7.240	23.649	1.00167.70	C
ATOM	136	O	SER	18	-42.265	-8.008	23.334	1.00167.70	O
ATOM	137	N	GLU	19	-44.049	-6.747	22.754	1.00270.85	N
ATOM	138	CA	GLU	19	-43.935	-7.126	21.381	1.00270.85	C
ATOM	139	CB	GLU	19	-44.967	-8.179	20.944	1.00270.85	C
ATOM	140	CG	GLU	19	-46.421	-7.728	21.076	1.00270.85	C
ATOM	141	CD	GLU	19	-47.296	-8.946	20.808	1.00270.85	C
ATOM	142	OE1	GLU	19	-46.825	-10.081	21.082	1.00270.85	O
ATOM	143	OE2	GLU	19	-48.448	-8.757	20.338	1.00270.85	O
ATOM	144	C	GLU	19	-44.119	-5.893	20.568	1.00270.85	C
ATOM	145	O	GLU	19	-44.859	-4.987	20.948	1.00270.85	O
ATOM	146	N	GLN	20	-43.420	-5.831	19.422	1.00 83.49	N
ATOM	147	CA	GLN	20	-43.452	-4.667	18.593	1.00 83.49	C
ATOM	148	CB	GLN	20	-42.461	-4.699	17.418	1.00 83.49	C
ATOM	149	CG	GLN	20	-42.390	-3.366	16.662	1.00 83.49	C
ATOM	150	CD	GLN	20	-41.231	-3.442	15.679	1.00 83.49	C
ATOM	151	OE1	GLN	20	-41.318	-2.972	14.546	1.00 83.49	O
ATOM	152	NE2	GLN	20	-40.105	-4.057	16.130	1.00 83.49	N
ATOM	153	C	GLN	20	-44.815	-4.493	18.021	1.00 83.49	C
ATOM	154	O	GLN	20	-45.274	-3.366	17.868	1.00 83.49	O
ATOM	155	N	LEU	21	-45.514	-5.598	17.710	1.00 44.93	N
ATOM	156	CA	LEU	21	-46.769	-5.481	17.026	1.00 44.93	C
ATOM	157	CB	LEU	21	-47.426	-6.847	16.754	1.00 44.93	C
ATOM	158	CG	LEU	21	-46.672	-7.624	15.662	1.00 44.93	C
ATOM	159	CD1	LEU	21	-47.345	-8.963	15.311	1.00 44.93	C
ATOM	160	CD2	LEU	21	-46.464	-6.720	14.438	1.00 44.93	C
ATOM	161	C	LEU	21	-47.717	-4.641	17.816	1.00 44.93	C
ATOM	162	O	LEU	21	-48.337	-3.731	17.269	1.00 44.93	O
ATOM	163	N	GLU	22	-47.828	-4.886	19.128	1.00 63.51	N
ATOM	164	CA	GLU	22	-48.756	-4.111	19.898	1.00 63.51	C
ATOM	165	CB	GLU	22	-48.751	-4.508	21.382	1.00 63.51	C
ATOM	166	CG	GLU	22	-49.395	-5.868	21.638	1.00 63.51	C
ATOM	167	CD	GLU	22	-50.891	-5.665	21.486	1.00 63.51	C
ATOM	168	OE1	GLU	22	-51.285	-4.621	20.902	1.00 63.51	O
ATOM	169	OE2	GLU	22	-51.662	-6.545	21.960	1.00 63.51	O
ATOM	170	C	GLU	22	-48.337	-2.684	19.822	1.00 63.51	C
ATOM	171	O	GLU	22	-49.153	-1.783	19.630	1.00 63.51	O
ATOM	172	N	GLU	23	-47.024	-2.453	19.934	1.00 77.18	N
ATOM	173	CA	GLU	23	-46.487	-1.130	19.933	1.00 77.18	C
ATOM	174	CB	GLU	23	-44.961	-1.110	20.102	1.00 77.18	C
ATOM	175	CG	GLU	23	-44.369	0.300	20.081	1.00 77.18	C
ATOM	176	CD	GLU	23	-42.858	0.165	20.168	1.00 77.18	C
ATOM	177	OE1	GLU	23	-42.388	-0.981	20.401	1.00 77.18	O
ATOM	178	OE2	GLU	23	-42.153	1.195	19.997	1.00 77.18	O
ATOM	179	C	GLU	23	-46.772	-0.484	18.618	1.00 77.18	C
ATOM	180	O	GLU	23	-46.986	0.722	18.555	1.00 77.18	O
ATOM	181	N	GLN	24	-46.791	-1.275	17.534	1.00 52.50	N
ATOM	182	CA	GLN	24	-46.864	-0.742	16.211	1.00 52.50	C
ATOM	183	CB	GLN	24	-46.685	-1.811	15.116	1.00 52.50	C
ATOM	184	CG	GLN	24	-45.244	-2.334	15.070	1.00 52.50	C
ATOM	185	CD	GLN	24	-45.099	-3.299	13.903	1.00 52.50	C
ATOM	186	OE1	GLN	24	-46.088	-3.784	13.357	1.00 52.50	O
ATOM	187	NE2	GLN	24	-43.830	-3.587	13.506	1.00 52.50	N
ATOM	188	C	GLN	24	-48.116	0.036	15.952	1.00 52.50	C
ATOM	189	O	GLN	24	-48.050	1.078	15.303	1.00 52.50	O
ATOM	190	N	LYS	25	-49.298	-0.408	16.415	1.00128.73	N
ATOM	191	CA	LYS	25	-50.414	0.417	16.053	1.00128.73	C
ATOM	192	CB	LYS	25	-51.801	-0.176	16.362	1.00128.73	C
ATOM	193	CG	LYS	25	-52.904	0.763	15.868	1.00128.73	C
ATOM	194	CD	LYS	25	-52.831	1.022	14.360	1.00128.73	C

ATOM	195	CE	LYS	25	-53.745	2.149	13.874	1.00128.73	C
ATOM	196	NZ	LYS	25	-53.394	2.521	12.484	1.00128.73	N
ATOM	197	C	LYS	25	-50.303	1.754	16.717	1.00128.73	C
ATOM	198	O	LYS	25	-50.466	2.786	16.055	1.00128.73	O
ATOM	199	N	PRO	26	-50.022	1.818	17.986	1.00122.81	N
ATOM	200	CA	PRO	26	-49.905	3.112	18.595	1.00122.81	C
ATOM	201	CD	PRO	26	-50.530	0.829	18.924	1.00122.81	C
ATOM	202	CB	PRO	26	-49.918	2.871	20.101	1.00122.81	C
ATOM	203	CG	PRO	26	-50.762	1.591	20.242	1.00122.81	C
ATOM	204	C	PRO	26	-48.706	3.843	18.092	1.00122.81	C
ATOM	205	O	PRO	26	-48.717	5.073	18.086	1.00122.81	O
ATOM	206	N	LEU	27	-47.658	3.099	17.701	1.00 45.29	N
ATOM	207	CA	LEU	27	-46.438	3.667	17.211	1.00 45.29	C
ATOM	208	CB	LEU	27	-45.339	2.611	16.988	1.00 45.29	C
ATOM	209	CG	LEU	27	-44.018	3.194	16.458	1.00 45.29	C
ATOM	210	CD1	LEU	27	-43.384	4.138	17.495	1.00 45.29	C
ATOM	211	CD2	LEU	27	-43.057	2.090	15.997	1.00 45.29	C
ATOM	212	C	LEU	27	-46.718	4.298	15.893	1.00 45.29	C
ATOM	213	O	LEU	27	-46.191	5.362	15.576	1.00 45.29	O
ATOM	214	N	PHE	28	-47.576	3.637	15.097	1.00 90.74	N
ATOM	215	CA	PHE	28	-47.904	4.051	13.764	1.00 90.74	C
ATOM	216	CB	PHE	28	-48.892	3.078	13.098	1.00 90.74	C
ATOM	217	CG	PHE	28	-48.991	3.380	11.639	1.00 90.74	C
ATOM	218	CD1	PHE	28	-48.002	2.961	10.777	1.00 90.74	C
ATOM	219	CD2	PHE	28	-50.078	4.052	11.130	1.00 90.74	C
ATOM	220	CE1	PHE	28	-48.088	3.227	9.433	1.00 90.74	C
ATOM	221	CE2	PHE	28	-50.170	4.322	9.786	1.00 90.74	C
ATOM	222	CZ	PHE	28	-49.172	3.910	8.935	1.00 90.74	C
ATOM	223	C	PHE	28	-48.542	5.396	13.858	1.00 90.74	C
ATOM	224	O	PHE	28	-48.202	6.309	13.109	1.00 90.74	O
ATOM	225	N	GLY	29	-49.480	5.555	14.807	1.00 85.00	N
ATOM	226	CA	GLY	29	-50.152	6.810	14.952	1.00 85.00	C
ATOM	227	C	GLY	29	-49.136	7.850	15.307	1.00 85.00	C
ATOM	228	O	GLY	29	-49.199	8.982	14.828	1.00 85.00	O
ATOM	229	N	SER	30	-48.171	7.484	16.170	1.00 87.63	N
ATOM	230	CA	SER	30	-47.168	8.403	16.629	1.00 87.63	C
ATOM	231	CB	SER	30	-46.172	7.753	17.603	1.00 87.63	C
ATOM	232	OG	SER	30	-46.842	7.321	18.777	1.00 87.63	O
ATOM	233	C	SER	30	-46.361	8.898	15.468	1.00 87.63	C
ATOM	234	O	SER	30	-46.171	10.102	15.310	1.00 87.63	O
ATOM	235	N	PHE	31	-45.861	7.980	14.622	1.00 59.51	N
ATOM	236	CA	PHE	31	-45.042	8.370	13.508	1.00 59.51	C
ATOM	237	CB	PHE	31	-44.377	7.205	12.768	1.00 59.51	C
ATOM	238	CG	PHE	31	-43.145	6.848	13.519	1.00 59.51	C
ATOM	239	CD1	PHE	31	-43.212	6.126	14.687	1.00 59.51	C
ATOM	240	CD2	PHE	31	-41.915	7.229	13.033	1.00 59.51	C
ATOM	241	CE1	PHE	31	-42.065	5.797	15.370	1.00 59.51	C
ATOM	242	CE2	PHE	31	-40.767	6.903	13.710	1.00 59.51	C
ATOM	243	CZ	PHE	31	-40.841	6.187	14.882	1.00 59.51	C
ATOM	244	C	PHE	31	-45.825	9.165	12.517	1.00 59.51	C
ATOM	245	O	PHE	31	-45.304	10.110	11.927	1.00 59.51	O
ATOM	246	N	LEU	32	-47.094	8.796	12.286	1.00128.45	N
ATOM	247	CA	LEU	32	-47.872	9.515	11.321	1.00128.45	C
ATOM	248	CB	LEU	32	-49.293	8.933	11.169	1.00128.45	C
ATOM	249	CG	LEU	32	-50.118	9.527	10.008	1.00128.45	C
ATOM	250	CD1	LEU	32	-50.448	11.012	10.218	1.00128.45	C
ATOM	251	CD2	LEU	32	-49.438	9.254	8.656	1.00128.45	C
ATOM	252	C	LEU	32	-47.979	10.923	11.819	1.00128.45	C
ATOM	253	O	LEU	32	-47.873	11.884	11.059	1.00128.45	O
ATOM	254	N	PHE	33	-48.166	11.055	13.143	1.00 91.04	N
ATOM	255	CA	PHE	33	-48.331	12.293	13.845	1.00 91.04	C
ATOM	256	CB	PHE	33	-48.534	11.980	15.342	1.00 91.04	C
ATOM	257	CG	PHE	33	-48.896	13.195	16.115	1.00 91.04	C
ATOM	258	CD1	PHE	33	-50.187	13.662	16.105	1.00 91.04	C
ATOM	259	CD2	PHE	33	-47.948	13.841	16.875	1.00 91.04	C
ATOM	260	CE1	PHE	33	-50.528	14.781	16.828	1.00 91.04	C
ATOM	261	CE2	PHE	33	-48.284	14.959	17.598	1.00 91.04	C
ATOM	262	CZ	PHE	33	-49.576	15.432	17.573	1.00 91.04	C
ATOM	263	C	PHE	33	-47.082	13.108	13.661	1.00 91.04	C
ATOM	264	O	PHE	33	-47.144	14.299	13.363	1.00 91.04	O
ATOM	265	N	MET	34	-45.906	12.472	13.819	1.00 42.21	N
ATOM	266	CA	MET	34	-44.662	13.178	13.707	1.00 42.21	C
ATOM	267	CB	MET	34	-43.441	12.339	14.109	1.00 42.21	C
ATOM	268	CG	MET	34	-43.442	11.996	15.601	1.00 42.21	C
ATOM	269	SD	MET	34	-41.957	11.127	16.177	1.00 42.21	S
ATOM	270	CE	MET	34	-40.954	12.639	16.180	1.00 42.21	C
ATOM	271	C	MET	34	-44.480	13.672	12.307	1.00 42.21	C

ATOM	272	O	MET	34	-43.942	14.755	12.089	1.00	42.21	O
ATOM	273	N	TYR	35	-44.913	12.880	11.315	1.00154.01		N
ATOM	274	CA	TYR	35	-44.826	13.268	9.938	1.00154.01		C
ATOM	275	CB	TYR	35	-45.417	12.169	9.040	1.00154.01		C
ATOM	276	CG	TYR	35	-45.828	12.763	7.740	1.00154.01		C
ATOM	277	CD1	TYR	35	-44.911	13.101	6.777	1.00154.01		C
ATOM	278	CD2	TYR	35	-47.167	12.969	7.493	1.00154.01		C
ATOM	279	CE1	TYR	35	-45.329	13.644	5.581	1.00154.01		C
ATOM	280	CE2	TYR	35	-47.590	13.508	6.302	1.00154.01		C
ATOM	281	CZ	TYR	35	-46.669	13.846	5.345	1.00154.01		C
ATOM	282	OH	TYR	35	-47.106	14.400	4.121	1.00154.01		O
ATOM	283	C	TYR	35	-45.636	14.506	9.732	1.00154.01		C
ATOM	284	O	TYR	35	-45.180	15.467	9.112	1.00154.01		O
ATOM	285	N	LEU	36	-46.868	14.511	10.268	1.00140.83		N
ATOM	286	CA	LEU	36	-47.764	15.616	10.098	1.00140.83		C
ATOM	287	CB	LEU	36	-49.150	15.363	10.718	1.00140.83		C
ATOM	288	CG	LEU	36	-49.914	14.178	10.100	1.00140.83		C
ATOM	289	CD1	LEU	36	-51.296	14.001	10.750	1.00140.83		C
ATOM	290	CD2	LEU	36	-49.982	14.300	8.570	1.00140.83		C
ATOM	291	C	LEU	36	-47.207	16.830	10.777	1.00140.83		C
ATOM	292	O	LEU	36	-47.270	17.935	10.242	1.00140.83		O
ATOM	293	N	VAL	37	-46.647	16.671	11.987	1.00	95.27	N
ATOM	294	CA	VAL	37	-46.196	17.844	12.678	1.00	95.27	C
ATOM	295	CB	VAL	37	-45.687	17.578	14.070	1.00	95.27	C
ATOM	296	CG1	VAL	37	-46.839	17.024	14.923	1.00	95.27	C
ATOM	297	CG2	VAL	37	-44.464	16.652	13.998	1.00	95.27	C
ATOM	298	C	VAL	37	-45.097	18.496	11.901	1.00	95.27	C
ATOM	299	O	VAL	37	-45.072	19.715	11.744	1.00	95.27	O
ATOM	300	N	THR	38	-44.150	17.691	11.392	1.00125.19		N
ATOM	301	CA	THR	38	-43.011	18.207	10.700	1.00125.19		C
ATOM	302	CB	THR	38	-41.988	17.123	10.527	1.00125.19		C
ATOM	303	OG1	THR	38	-40.751	17.662	10.094	1.00125.19		O
ATOM	304	CG2	THR	38	-42.539	16.044	9.584	1.00125.19		C
ATOM	305	C	THR	38	-43.449	18.852	9.409	1.00125.19		C
ATOM	306	O	THR	38	-42.949	19.920	9.052	1.00125.19		O
ATOM	307	N	VAL	39	-44.409	18.244	8.679	1.00120.55		N
ATOM	308	CA	VAL	39	-44.885	18.801	7.435	1.00120.55		C
ATOM	309	CB	VAL	39	-45.902	17.915	6.715	1.00120.55		C
ATOM	310	CG1	VAL	39	-45.290	16.542	6.437	1.00120.55		C
ATOM	311	CG2	VAL	39	-47.205	17.765	7.512	1.00120.55		C
ATOM	312	C	VAL	39	-45.560	20.130	7.682	1.00120.55		C
ATOM	313	O	VAL	39	-45.290	21.113	6.992	1.00120.55		O
ATOM	314	N	ALA	40	-46.458	20.194	8.686	1.00	42.15	N
ATOM	315	CA	ALA	40	-47.261	21.360	8.925	1.00	42.15	C
ATOM	316	CB	ALA	40	-48.312	21.134	10.023	1.00	42.15	C
ATOM	317	C	ALA	40	-46.432	22.530	9.351	1.00	42.15	C
ATOM	318	O	ALA	40	-46.595	23.633	8.832	1.00	42.15	O
ATOM	319	N	GLY	41	-45.508	22.311	10.303	1.00	33.48	N
ATOM	320	CA	GLY	41	-44.742	23.389	10.865	1.00	33.48	C
ATOM	321	C	GLY	41	-43.851	24.002	9.834	1.00	33.48	C
ATOM	322	O	GLY	41	-43.708	25.223	9.779	1.00	33.48	O
ATOM	323	N	ASN	42	-43.204	23.154	9.013	1.00	67.32	N
ATOM	324	CA	ASN	42	-42.291	23.614	8.007	1.00	67.32	C
ATOM	325	CB	ASN	42	-41.543	22.467	7.313	1.00	67.32	C
ATOM	326	CG	ASN	42	-40.481	22.001	8.297	1.00	67.32	C
ATOM	327	OD1	ASN	42	-40.685	21.066	9.068	1.00	67.32	O
ATOM	328	ND2	ASN	42	-39.311	22.689	8.287	1.00	67.32	N
ATOM	329	C	ASN	42	-43.032	24.367	6.960	1.00	67.32	C
ATOM	330	O	ASN	42	-42.537	25.369	6.450	1.00	67.32	O
ATOM	331	N	LEU	43	-44.235	23.891	6.596	1.00	85.06	N
ATOM	332	CA	LEU	43	-45.007	24.564	5.595	1.00	85.06	C
ATOM	333	CB	LEU	43	-46.314	23.805	5.258	1.00	85.06	C
ATOM	334	CG	LEU	43	-47.235	24.441	4.184	1.00	85.06	C
ATOM	335	CD1	LEU	43	-48.328	23.456	3.731	1.00	85.06	C
ATOM	336	CD2	LEU	43	-47.877	25.756	4.668	1.00	85.06	C
ATOM	337	C	LEU	43	-45.327	25.932	6.116	1.00	85.06	C
ATOM	338	O	LEU	43	-45.263	26.915	5.383	1.00	85.06	O
ATOM	339	N	LEU	44	-45.656	26.033	7.416	1.00102.04		N
ATOM	340	CA	LEU	44	-46.049	27.287	8.004	1.00102.04		C
ATOM	341	CB	LEU	44	-46.490	27.116	9.476	1.00102.04		C
ATOM	342	CG	LEU	44	-47.181	28.327	10.146	1.00102.04		C
ATOM	343	CD1	LEU	44	-47.609	27.963	11.576	1.00102.04		C
ATOM	344	CD2	LEU	44	-46.330	29.607	10.118	1.00102.04		C
ATOM	345	C	LEU	44	-44.893	28.250	7.934	1.00102.04		C
ATOM	346	O	LEU	44	-45.084	29.439	7.683	1.00102.04		O
ATOM	347	N	ILE	45	-43.661	27.756	8.164	1.00	49.97	N
ATOM	348	CA	ILE	45	-42.473	28.570	8.164	1.00	49.97	C

ATOM	349	CB	ILE	45	-41.242	27.770	8.474	1.00	49.97	C
ATOM	350	CG2	ILE	45	-40.030	28.707	8.338	1.00	49.97	C
ATOM	351	CG1	ILE	45	-41.352	27.081	9.843	1.00	49.97	C
ATOM	352	CD1	ILE	45	-40.298	25.991	10.035	1.00	49.97	C
ATOM	353	C	ILE	45	-42.231	29.125	6.794	1.00	49.97	C
ATOM	354	O	ILE	45	-41.929	30.305	6.634	1.00	49.97	O
ATOM	355	N	ILE	46	-42.334	28.271	5.760	1.00102.49		N
ATOM	356	CA	ILE	46	-42.047	28.700	4.423	1.00102.49		C
ATOM	357	CB	ILE	46	-42.016	27.563	3.441	1.00102.49		C
ATOM	358	CG2	ILE	46	-40.820	26.664	3.796	1.00102.49		C
ATOM	359	CG1	ILE	46	-43.363	26.830	3.403	1.00102.49		C
ATOM	360	CD1	ILE	46	-43.447	25.774	2.304	1.00102.49		C
ATOM	361	C	ILE	46	-43.040	29.732	3.986	1.00102.49		C
ATOM	362	O	ILE	46	-42.659	30.738	3.389	1.00102.49		O
ATOM	363	N	LEU	47	-44.338	29.518	4.277	1.00147.30		N
ATOM	364	CA	LEU	47	-45.347	30.456	3.871	1.00147.30		C
ATOM	365	CB	LEU	47	-46.789	29.988	4.146	1.00147.30		C
ATOM	366	CG	LEU	47	-47.320	28.959	3.127	1.00147.30		C
ATOM	367	CD1	LEU	47	-47.566	29.617	1.758	1.00147.30		C
ATOM	368	CD2	LEU	47	-46.412	27.724	3.031	1.00147.30		C
ATOM	369	C	LEU	47	-45.158	31.777	4.556	1.00147.30		C
ATOM	370	O	LEU	47	-45.297	32.822	3.923	1.00147.30		O
ATOM	371	N	VAL	48	-44.828	31.784	5.863	1.00	96.83	N
ATOM	372	CA	VAL	48	-44.715	33.036	6.562	1.00	96.83	C
ATOM	373	CB	VAL	48	-44.433	32.885	8.036	1.00	96.83	C
ATOM	374	CG1	VAL	48	-45.600	32.128	8.696	1.00	96.83	C
ATOM	375	CG2	VAL	48	-43.063	32.219	8.222	1.00	96.83	C
ATOM	376	C	VAL	48	-43.618	33.862	5.955	1.00	96.83	C
ATOM	377	O	VAL	48	-43.778	35.067	5.764	1.00	96.83	O
ATOM	378	N	ILE	49	-42.467	33.235	5.639	1.00	96.66	N
ATOM	379	CA	ILE	49	-41.340	33.930	5.079	1.00	96.66	C
ATOM	380	CB	ILE	49	-40.168	33.022	4.845	1.00	96.66	C
ATOM	381	CG2	ILE	49	-39.068	33.846	4.152	1.00	96.66	C
ATOM	382	CG1	ILE	49	-39.709	32.358	6.153	1.00	96.66	C
ATOM	383	CD1	ILE	49	-39.208	33.343	7.205	1.00	96.66	C
ATOM	384	C	ILE	49	-41.707	34.457	3.728	1.00	96.66	C
ATOM	385	O	ILE	49	-41.419	35.609	3.402	1.00	96.66	O
ATOM	386	N	ILE	50	-42.350	33.609	2.901	1.00129.37		N
ATOM	387	CA	ILE	50	-42.683	33.990	1.558	1.00129.37		C
ATOM	388	CB	ILE	50	-43.237	32.851	0.731	1.00129.37		C
ATOM	389	CG2	ILE	50	-44.601	32.421	1.300	1.00129.37		C
ATOM	390	CG1	ILE	50	-43.306	33.254	-0.753	1.00129.37		C
ATOM	391	CD1	ILE	50	-41.940	33.530	-1.380	1.00129.37		C
ATOM	392	C	ILE	50	-43.681	35.113	1.553	1.00129.37		C
ATOM	393	O	ILE	50	-43.525	36.071	0.799	1.00129.37		O
ATOM	394	N	THR	51	-44.740	35.019	2.383	1.00109.35		N
ATOM	395	CA	THR	51	-45.801	35.991	2.372	1.00109.35		C
ATOM	396	CB	THR	51	-47.022	35.554	3.133	1.00109.35		C
ATOM	397	OG1	THR	51	-48.079	36.481	2.933	1.00109.35		O
ATOM	398	CG2	THR	51	-46.678	35.450	4.628	1.00109.35		C
ATOM	399	C	THR	51	-45.399	37.331	2.912	1.00109.35		C
ATOM	400	O	THR	51	-45.710	38.354	2.303	1.00109.35		O
ATOM	401	N	ASP	52	-44.690	37.376	4.060	1.00	46.98	N
ATOM	402	CA	ASP	52	-44.441	38.652	4.666	1.00	46.98	C
ATOM	403	CB	ASP	52	-44.601	38.644	6.194	1.00	46.98	C
ATOM	404	CG	ASP	52	-46.094	38.596	6.488	1.00	46.98	C
ATOM	405	OD1	ASP	52	-46.889	38.848	5.545	1.00	46.98	O
ATOM	406	OD2	ASP	52	-46.455	38.313	7.662	1.00	46.98	O
ATOM	407	C	ASP	52	-43.075	39.151	4.329	1.00	46.98	C
ATOM	408	O	ASP	52	-42.066	38.501	4.593	1.00	46.98	O
ATOM	409	N	THR	53	-43.041	40.365	3.749	1.00	32.05	N
ATOM	410	CA	THR	53	-41.841	41.009	3.302	1.00	32.05	C
ATOM	411	CB	THR	53	-42.089	42.316	2.615	1.00	32.05	C
ATOM	412	OG1	THR	53	-42.939	42.124	1.496	1.00	32.05	O
ATOM	413	CG2	THR	53	-40.734	42.881	2.155	1.00	32.05	C
ATOM	414	C	THR	53	-40.971	41.294	4.479	1.00	32.05	C
ATOM	415	O	THR	53	-39.748	41.219	4.385	1.00	32.05	O
ATOM	416	N	GLN	54	-41.578	41.629	5.630	1.00	50.65	N
ATOM	417	CA	GLN	54	-40.776	41.955	6.769	1.00	50.65	C
ATOM	418	CB	GLN	54	-41.601	42.313	8.017	1.00	50.65	C
ATOM	419	CG	GLN	54	-42.290	43.679	7.944	1.00	50.65	C
ATOM	420	CD	GLN	54	-42.978	43.913	9.282	1.00	50.65	C
ATOM	421	OE1	GLN	54	-43.070	45.042	9.761	1.00	50.65	O
ATOM	422	NE2	GLN	54	-43.471	42.811	9.909	1.00	50.65	N
ATOM	423	C	GLN	54	-39.917	40.774	7.105	1.00	50.65	C
ATOM	424	O	GLN	54	-38.757	40.936	7.478	1.00	50.65	O
ATOM	425	N	LEU	55	-40.463	39.552	6.992	1.00118.81		N

ATOM	426	CA	LEU	55	-39.727	38.361	7.312	1.00118.81	C
ATOM	427	CB	LEU	55	-40.583	37.088	7.478	1.00118.81	C
ATOM	428	CG	LEU	55	-41.499	37.141	8.720	1.00118.81	C
ATOM	429	CD1	LEU	55	-42.654	38.134	8.530	1.00118.81	C
ATOM	430	CD2	LEU	55	-41.963	35.743	9.156	1.00118.81	C
ATOM	431	C	LEU	55	-38.639	38.092	6.318	1.00118.81	C
ATOM	432	O	LEU	55	-37.693	37.378	6.640	1.00118.81	O
ATOM	433	N	HIS	56	-38.756	38.592	5.068	1.00 76.23	N
ATOM	434	CA	HIS	56	-37.739	38.269	4.104	1.00 76.23	C
ATOM	435	ND1	HIS	56	-38.586	36.182	1.807	1.00 76.23	N
ATOM	436	CG	HIS	56	-38.979	37.490	2.005	1.00 76.23	C
ATOM	437	CB	HIS	56	-38.105	38.540	2.629	1.00 76.23	C
ATOM	438	NE2	HIS	56	-40.649	36.353	0.997	1.00 76.23	N
ATOM	439	CD2	HIS	56	-40.241	37.574	1.505	1.00 76.23	C
ATOM	440	CE1	HIS	56	-39.621	35.548	1.202	1.00 76.23	C
ATOM	441	C	HIS	56	-36.470	39.008	4.385	1.00 76.23	C
ATOM	442	O	HIS	56	-36.306	40.179	4.046	1.00 76.23	O
ATOM	443	N	THR	57	-35.524	38.301	5.029	1.00 56.98	N
ATOM	444	CA	THR	57	-34.217	38.834	5.247	1.00 56.98	C
ATOM	445	CB	THR	57	-33.912	39.262	6.658	1.00 56.98	C
ATOM	446	OG1	THR	57	-33.844	38.137	7.516	1.00 56.98	O
ATOM	447	CG2	THR	57	-35.015	40.219	7.146	1.00 56.98	C
ATOM	448	C	THR	57	-33.300	37.708	4.898	1.00 56.98	C
ATOM	449	O	THR	57	-33.760	36.597	4.613	1.00 56.98	O
ATOM	450	N	PRO	58	-32.026	37.949	4.870	1.00153.67	N
ATOM	451	CA	PRO	58	-31.110	36.908	4.502	1.00153.67	C
ATOM	452	CD	PRO	58	-31.523	39.268	4.525	1.00153.67	C
ATOM	453	CB	PRO	58	-29.764	37.597	4.317	1.00153.67	C
ATOM	454	CG	PRO	58	-30.146	39.024	3.887	1.00153.67	C
ATOM	455	C	PRO	58	-31.109	35.730	5.429	1.00153.67	C
ATOM	456	O	PRO	58	-31.002	34.602	4.949	1.00153.67	O
ATOM	457	N	MET	59	-31.257	35.955	6.747	1.00 77.83	N
ATOM	458	CA	MET	59	-31.232	34.871	7.687	1.00 77.83	C
ATOM	459	CB	MET	59	-31.365	35.356	9.139	1.00 77.83	C
ATOM	460	CG	MET	59	-30.179	36.214	9.582	1.00 77.83	C
ATOM	461	SD	MET	59	-30.415	37.052	11.175	1.00 77.83	S
ATOM	462	CE	MET	59	-31.649	38.225	10.542	1.00 77.83	C
ATOM	463	C	MET	59	-32.388	33.969	7.388	1.00 77.83	C
ATOM	464	O	MET	59	-32.253	32.746	7.374	1.00 77.83	O
ATOM	465	N	TYR	60	-33.551	34.573	7.093	1.00 75.75	N
ATOM	466	CA	TYR	60	-34.782	33.888	6.821	1.00 75.75	C
ATOM	467	CB	TYR	60	-35.983	34.846	6.720	1.00 75.75	C
ATOM	468	CG	TYR	60	-36.219	35.309	8.124	1.00 75.75	C
ATOM	469	CD1	TYR	60	-35.293	36.114	8.742	1.00 75.75	C
ATOM	470	CD2	TYR	60	-37.350	34.958	8.827	1.00 75.75	C
ATOM	471	CE1	TYR	60	-35.470	36.559	10.030	1.00 75.75	C
ATOM	472	CE2	TYR	60	-37.537	35.399	10.120	1.00 75.75	C
ATOM	473	CZ	TYR	60	-36.599	36.201	10.726	1.00 75.75	C
ATOM	474	OH	TYR	60	-36.787	36.655	12.050	1.00 75.75	O
ATOM	475	C	TYR	60	-34.646	33.061	5.579	1.00 75.75	C
ATOM	476	O	TYR	60	-35.313	32.036	5.452	1.00 75.75	O
ATOM	477	N	PHE	61	-33.835	33.507	4.599	1.00 57.26	N
ATOM	478	CA	PHE	61	-33.625	32.705	3.422	1.00 57.26	C
ATOM	479	CB	PHE	61	-32.712	33.357	2.368	1.00 57.26	C
ATOM	480	CG	PHE	61	-33.531	34.222	1.474	1.00 57.26	C
ATOM	481	CD1	PHE	61	-33.985	35.456	1.876	1.00 57.26	C
ATOM	482	CD2	PHE	61	-33.825	33.776	0.206	1.00 57.26	C
ATOM	483	CE1	PHE	61	-34.736	36.226	1.017	1.00 57.26	C
ATOM	484	CE2	PHE	61	-34.572	34.543	-0.655	1.00 57.26	C
ATOM	485	CZ	PHE	61	-35.029	35.772	-0.246	1.00 57.26	C
ATOM	486	C	PHE	61	-32.978	31.416	3.820	1.00 57.26	C
ATOM	487	O	PHE	61	-33.360	30.351	3.338	1.00 57.26	O
ATOM	488	N	PHE	62	-31.969	31.476	4.708	1.00 57.85	N
ATOM	489	CA	PHE	62	-31.295	30.280	5.129	1.00 57.85	C
ATOM	490	CB	PHE	62	-30.066	30.533	6.022	1.00 57.85	C
ATOM	491	CG	PHE	62	-29.039	31.265	5.219	1.00 57.85	C
ATOM	492	CD1	PHE	62	-28.446	30.691	4.116	1.00 57.85	C
ATOM	493	CD2	PHE	62	-28.634	32.529	5.596	1.00 57.85	C
ATOM	494	CE1	PHE	62	-27.494	31.373	3.392	1.00 57.85	C
ATOM	495	CE2	PHE	62	-27.683	33.215	4.878	1.00 57.85	C
ATOM	496	CZ	PHE	62	-27.111	32.639	3.770	1.00 57.85	C
ATOM	497	C	PHE	62	-32.269	29.437	5.894	1.00 57.85	C
ATOM	498	O	PHE	62	-32.241	28.210	5.809	1.00 57.85	O
ATOM	499	N	LEU	63	-33.146	30.091	6.679	1.00 89.03	N
ATOM	500	CA	LEU	63	-34.132	29.424	7.484	1.00 89.03	C
ATOM	501	CB	LEU	63	-34.982	30.445	8.280	1.00 89.03	C
ATOM	502	CG	LEU	63	-35.990	29.884	9.312	1.00 89.03	C

ATOM	503	CD1	LEU	63	-36.694	31.036	10.047	1.00	89.03	C
ATOM	504	CD2	LEU	63	-37.012	28.912	8.699	1.00	89.03	C
ATOM	505	C	LEU	63	-35.023	28.666	6.552	1.00	89.03	C
ATOM	506	O	LEU	63	-35.397	27.527	6.828	1.00	89.03	O
ATOM	507	N	ALA	64	-35.384	29.288	5.415	1.00	29.43	N
ATOM	508	CA	ALA	64	-36.244	28.656	4.460	1.00	29.43	C
ATOM	509	CB	ALA	64	-36.548	29.562	3.256	1.00	29.43	C
ATOM	510	C	ALA	64	-35.555	27.429	3.949	1.00	29.43	C
ATOM	511	O	ALA	64	-36.173	26.376	3.812	1.00	29.43	O
ATOM	512	N	ASN	65	-34.241	27.531	3.668	1.00	45.25	N
ATOM	513	CA	ASN	65	-33.504	26.418	3.140	1.00	45.25	C
ATOM	514	CB	ASN	65	-32.072	26.794	2.716	1.00	45.25	C
ATOM	515	CG	ASN	65	-31.502	25.675	1.848	1.00	45.25	C
ATOM	516	OD1	ASN	65	-31.806	24.499	2.037	1.00	45.25	O
ATOM	517	ND2	ASN	65	-30.641	26.055	0.866	1.00	45.25	N
ATOM	518	C	ASN	65	-33.489	25.332	4.184	1.00	45.25	C
ATOM	519	O	ASN	65	-33.543	24.147	3.858	1.00	45.25	O
ATOM	520	N	LEU	66	-33.405	25.711	5.474	1.00160.34	N	
ATOM	521	CA	LEU	66	-33.457	24.759	6.550	1.00160.34	C	
ATOM	522	CB	LEU	66	-33.341	25.398	7.942	1.00160.34	C	
ATOM	523	CG	LEU	66	-31.944	25.926	8.291	1.00160.34	C	
ATOM	524	CD1	LEU	66	-31.915	26.530	9.703	1.00160.34	C	
ATOM	525	CD2	LEU	66	-30.891	24.826	8.108	1.00160.34	C	
ATOM	526	C	LEU	66	-34.809	24.104	6.540	1.00160.34	C	
ATOM	527	O	LEU	66	-34.923	22.895	6.734	1.00160.34	O	
ATOM	528	N	SER	67	-35.871	24.904	6.320	1.00	85.06	N
ATOM	529	CA	SER	67	-37.228	24.426	6.359	1.00	85.06	C
ATOM	530	CB	SER	67	-38.280	25.542	6.182	1.00	85.06	C
ATOM	531	OG	SER	67	-39.590	25.003	6.227	1.00	85.06	O
ATOM	532	C	SER	67	-37.460	23.428	5.264	1.00	85.06	C
ATOM	533	O	SER	67	-38.232	22.490	5.450	1.00	85.06	O
ATOM	534	N	LEU	68	-36.832	23.624	4.086	1.00132.79	N	
ATOM	535	CA	LEU	68	-37.014	22.717	2.982	1.00132.79	C	
ATOM	536	CB	LEU	68	-36.392	23.201	1.660	1.00132.79	C	
ATOM	537	CG	LEU	68	-36.608	22.201	0.505	1.00132.79	C	
ATOM	538	CD1	LEU	68	-38.104	22.000	0.219	1.00132.79	C	
ATOM	539	CD2	LEU	68	-35.831	22.611	-0.754	1.00132.79	C	
ATOM	540	C	LEU	68	-36.403	21.379	3.283	1.00132.79	C	
ATOM	541	O	LEU	68	-37.001	20.343	2.995	1.00132.79	O	
ATOM	542	N	ALA	69	-35.193	21.364	3.873	1.00	46.60	N
ATOM	543	CA	ALA	69	-34.516	20.126	4.142	1.00	46.60	C
ATOM	544	CB	ALA	69	-33.136	20.329	4.789	1.00	46.60	C
ATOM	545	C	ALA	69	-35.367	19.353	5.088	1.00	46.60	C
ATOM	546	O	ALA	69	-35.514	18.137	4.984	1.00	46.60	O
ATOM	547	N	ASP	70	-35.946	20.076	6.050	1.00123.57	N	
ATOM	548	CA	ASP	70	-36.804	19.560	7.063	1.00123.57	C	
ATOM	549	CB	ASP	70	-37.190	20.744	7.948	1.00123.57	C	
ATOM	550	CG	ASP	70	-37.618	20.210	9.272	1.00123.57	C	
ATOM	551	OD1	ASP	70	-38.590	19.408	9.274	1.00123.57	O	
ATOM	552	OD2	ASP	70	-36.962	20.584	10.280	1.00123.57	O	
ATOM	553	C	ASP	70	-38.037	19.010	6.408	1.00123.57	C	
ATOM	554	O	ASP	70	-38.485	17.913	6.729	1.00123.57	O	
ATOM	555	N	ALA	71	-38.609	19.773	5.454	1.00	43.00	N
ATOM	556	CA	ALA	71	-39.809	19.387	4.763	1.00	43.00	C
ATOM	557	CB	ALA	71	-40.293	20.461	3.774	1.00	43.00	C
ATOM	558	C	ALA	71	-39.546	18.145	3.965	1.00	43.00	C
ATOM	559	O	ALA	71	-40.376	17.245	3.902	1.00	43.00	O
ATOM	560	N	CYS	72	-38.380	18.054	3.314	1.00	38.84	N
ATOM	561	CA	CYS	72	-38.093	16.908	2.501	1.00	38.84	C
ATOM	562	CB	CYS	72	-36.771	17.079	1.743	1.00	38.84	C
ATOM	563	SG	CYS	72	-36.815	18.501	0.606	1.00	38.84	S
ATOM	564	C	CYS	72	-38.010	15.706	3.389	1.00	38.84	C
ATOM	565	O	CYS	72	-38.405	14.603	3.019	1.00	38.84	O
ATOM	566	N	PHE	73	-37.487	15.908	4.606	1.00	97.87	N
ATOM	567	CA	PHE	73	-37.338	14.883	5.592	1.00	97.87	C
ATOM	568	CB	PHE	73	-36.713	15.485	6.861	1.00	97.87	C
ATOM	569	CG	PHE	73	-36.253	14.402	7.762	1.00	97.87	C
ATOM	570	CD1	PHE	73	-35.130	13.677	7.435	1.00	97.87	C
ATOM	571	CD2	PHE	73	-36.913	14.137	8.937	1.00	97.87	C
ATOM	572	CE1	PHE	73	-34.682	12.679	8.260	1.00	97.87	C
ATOM	573	CE2	PHE	73	-36.468	13.140	9.768	1.00	97.87	C
ATOM	574	CZ	PHE	73	-35.355	12.411	9.427	1.00	97.87	C
ATOM	575	C	PHE	73	-38.713	14.375	5.922	1.00	97.87	C
ATOM	576	O	PHE	73	-38.938	13.167	6.003	1.00	97.87	O
ATOM	577	N	VAL	74	-39.676	15.300	6.096	1.00134.78	N	
ATOM	578	CA	VAL	74	-41.010	14.963	6.509	1.00134.78	C	
ATOM	579	CB	VAL	74	-41.896	16.187	6.703	1.00134.78	C	

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ATOM	580	CG1	VAL	74	-41.049	17.258	7.378	1.00134.78	C
ATOM	581	CG2	VAL	74	-42.559	16.711	5.423	1.00134.78	C
ATOM	582	C	VAL	74	-41.648	14.108	5.452	1.00134.78	C
ATOM	583	O	VAL	74	-42.361	13.159	5.766	1.00134.78	O
ATOM	584	N	SER	75	-41.465	14.482	4.169	1.00101.97	N
ATOM	585	CA	SER	75	-42.072	13.798	3.069	1.00101.97	C
ATOM	586	CB	SER	75	-42.146	14.688	1.818	1.00101.97	C
ATOM	587	OG	SER	75	-42.736	13.976	0.742	1.00101.97	O
ATOM	588	C	SER	75	-41.355	12.538	2.686	1.00101.97	C
ATOM	589	O	SER	75	-41.905	11.442	2.775	1.00101.97	O
ATOM	590	N	THR	76	-40.111	12.696	2.186	1.00144.99	N
ATOM	591	CA	THR	76	-39.347	11.603	1.647	1.00144.99	C
ATOM	592	CB	THR	76	-38.194	12.061	0.793	1.00144.99	C
ATOM	593	OG1	THR	76	-37.274	12.817	1.561	1.00144.99	O
ATOM	594	CG2	THR	76	-38.739	12.897	-0.379	1.00144.99	C
ATOM	595	C	THR	76	-38.784	10.644	2.660	1.00144.99	C
ATOM	596	O	THR	76	-38.900	9.432	2.488	1.00144.99	O
ATOM	597	N	THR	77	-38.077	11.157	3.691	1.00 71.84	N
ATOM	598	CA	THR	77	-37.392	10.299	4.625	1.00 71.84	C
ATOM	599	CB	THR	77	-36.268	11.003	5.320	1.00 71.84	C
ATOM	600	OG1	THR	77	-35.335	11.483	4.362	1.00 71.84	O
ATOM	601	CG2	THR	77	-35.588	10.001	6.270	1.00 71.84	C
ATOM	602	C	THR	77	-38.236	9.656	5.692	1.00 71.84	C
ATOM	603	O	THR	77	-38.235	8.438	5.855	1.00 71.84	O
ATOM	604	N	VAL	78	-39.009	10.467	6.431	1.00 61.76	N
ATOM	605	CA	VAL	78	-39.678	10.005	7.616	1.00 61.76	C
ATOM	606	CB	VAL	78	-40.387	11.117	8.329	1.00 61.76	C
ATOM	607	CG1	VAL	78	-41.157	10.516	9.516	1.00 61.76	C
ATOM	608	CG2	VAL	78	-39.355	12.187	8.729	1.00 61.76	C
ATOM	609	C	VAL	78	-40.690	8.939	7.333	1.00 61.76	C
ATOM	610	O	VAL	78	-40.753	7.953	8.070	1.00 61.76	O
ATOM	611	N	PRO	79	-41.500	9.073	6.326	1.00 78.58	N
ATOM	612	CA	PRO	79	-42.528	8.096	6.112	1.00 78.58	C
ATOM	613	CD	PRO	79	-41.844	10.368	5.763	1.00 78.58	C
ATOM	614	CB	PRO	79	-43.409	8.662	5.001	1.00 78.58	C
ATOM	615	CG	PRO	79	-43.248	10.188	5.159	1.00 78.58	C
ATOM	616	C	PRO	79	-42.005	6.720	5.838	1.00 78.58	C
ATOM	617	O	PRO	79	-42.606	5.758	6.308	1.00 78.58	O
ATOM	618	N	LYS	80	-40.908	6.611	5.064	1.00122.82	N
ATOM	619	CA	LYS	80	-40.327	5.351	4.689	1.00122.82	C
ATOM	620	CB	LYS	80	-39.243	5.489	3.605	1.00122.82	C
ATOM	621	CG	LYS	80	-39.754	6.112	2.302	1.00122.82	C
ATOM	622	CD	LYS	80	-40.891	5.347	1.624	1.00122.82	C
ATOM	623	CE	LYS	80	-41.429	6.075	0.390	1.00122.82	C
ATOM	624	NZ	LYS	80	-42.008	7.377	0.793	1.00122.82	N
ATOM	625	C	LYS	80	-39.694	4.707	5.880	1.00122.82	C
ATOM	626	O	LYS	80	-39.787	3.494	6.062	1.00122.82	O
ATOM	627	N	MET	81	-39.029	5.516	6.728	1.00102.46	N
ATOM	628	CA	MET	81	-38.350	5.007	7.884	1.00102.46	C
ATOM	629	CB	MET	81	-37.711	6.130	8.726	1.00102.46	C
ATOM	630	CG	MET	81	-37.124	5.657	10.060	1.00102.46	C
ATOM	631	SD	MET	81	-36.373	6.967	11.078	1.00102.46	S
ATOM	632	CE	MET	81	-34.796	7.029	10.181	1.00102.46	C
ATOM	633	C	MET	81	-39.370	4.354	8.755	1.00102.46	C
ATOM	634	O	MET	81	-39.154	3.257	9.269	1.00102.46	O
ATOM	635	N	LEU	82	-40.523	5.023	8.921	1.00134.59	N
ATOM	636	CA	LEU	82	-41.574	4.523	9.753	1.00134.59	C
ATOM	637	CB	LEU	82	-42.775	5.477	9.817	1.00134.59	C
ATOM	638	CG	LEU	82	-44.004	4.845	10.493	1.00134.59	C
ATOM	639	CD1	LEU	82	-43.715	4.431	11.943	1.00134.59	C
ATOM	640	CD2	LEU	82	-45.234	5.753	10.350	1.00134.59	C
ATOM	641	C	LEU	82	-42.088	3.230	9.209	1.00134.59	C
ATOM	642	O	LEU	82	-42.251	2.261	9.948	1.00134.59	O
ATOM	643	N	ALA	83	-42.334	3.177	7.889	1.00 32.99	N
ATOM	644	CA	ALA	83	-42.877	2.001	7.276	1.00 32.99	C
ATOM	645	CB	ALA	83	-43.076	2.149	5.758	1.00 32.99	C
ATOM	646	C	ALA	83	-41.904	0.893	7.478	1.00 32.99	C
ATOM	647	O	ALA	83	-42.290	-0.242	7.753	1.00 32.99	O
ATOM	648	N	ASN	84	-40.603	1.224	7.378	1.00 48.77	N
ATOM	649	CA	ASN	84	-39.557	0.252	7.459	1.00 48.77	C
ATOM	650	CB	ASN	84	-38.172	0.934	7.518	1.00 48.77	C
ATOM	651	CG	ASN	84	-37.065	-0.111	7.520	1.00 48.77	C
ATOM	652	OD1	ASN	84	-37.299	-1.290	7.262	1.00 48.77	O
ATOM	653	ND2	ASN	84	-35.819	0.336	7.831	1.00 48.77	N
ATOM	654	C	ASN	84	-39.745	-0.498	8.734	1.00 48.77	C
ATOM	655	O	ASN	84	-39.783	-1.727	8.734	1.00 48.77	O
ATOM	656	N	ILE	85	-39.881	0.228	9.856	1.00 47.39	N

ATOM	657	CA	ILE	85	-40.070	-0.422	11.118	1.00	47.39	C
ATOM	658	CB	ILE	85	-39.917	0.515	12.280	1.00	47.39	C
ATOM	659	CG2	ILE	85	-40.339	-0.225	13.560	1.00	47.39	C
ATOM	660	CG1	ILE	85	-38.475	1.048	12.321	1.00	47.39	C
ATOM	661	CD1	ILE	85	-38.272	2.193	13.310	1.00	47.39	C
ATOM	662	C	ILE	85	-41.432	-1.054	11.197	1.00	47.39	C
ATOM	663	O	ILE	85	-41.557	-2.210	11.597	1.00	47.39	O
ATOM	664	N	GLN	86	-42.489	-0.324	10.782	1.00106.17		N
ATOM	665	CA	GLN	86	-43.831	-0.812	10.971	1.00106.17		C
ATOM	666	CB	GLN	86	-44.906	0.149	10.427	1.00106.17		C
ATOM	667	CG	GLN	86	-45.118	1.392	11.296	1.00106.17		C
ATOM	668	CD	GLN	86	-45.998	0.991	12.474	1.00106.17		C
ATOM	669	OE1	GLN	86	-46.044	1.678	13.494	1.00106.17		O
ATOM	670	NE2	GLN	86	-46.727	-0.148	12.331	1.00106.17		N
ATOM	671	C	GLN	86	-44.005	-2.108	10.263	1.00106.17		C
ATOM	672	O	GLN	86	-44.436	-3.092	10.862	1.00106.17		O
ATOM	673	N	ILE	87	-43.643	-2.153	8.970	1.00209.99		N
ATOM	674	CA	ILE	87	-43.744	-3.381	8.250	1.00209.99		C
ATOM	675	CB	ILE	87	-44.337	-3.215	6.875	1.00209.99		C
ATOM	676	CG2	ILE	87	-44.145	-4.515	6.078	1.00209.99		C
ATOM	677	CG1	ILE	87	-45.803	-2.768	6.991	1.00209.99		C
ATOM	678	CD1	ILE	87	-46.408	-2.310	5.665	1.00209.99		C
ATOM	679	C	ILE	87	-42.338	-3.817	8.099	1.00209.99		C
ATOM	680	O	ILE	87	-41.583	-3.250	7.312	1.00209.99		O
ATOM	681	N	GLN	88	-41.942	-4.839	8.875	1.00202.54		N
ATOM	682	CA	GLN	88	-40.573	-5.225	8.785	1.00202.54		C
ATOM	683	CB	GLN	88	-40.155	-6.288	9.814	1.00202.54		C
ATOM	684	CG	GLN	88	-40.236	-5.770	11.249	1.00202.54		C
ATOM	685	CD	GLN	88	-39.801	-6.885	12.183	1.00202.54		C
ATOM	686	OE1	GLN	88	-40.307	-8.005	12.111	1.00202.54		O
ATOM	687	NE2	GLN	88	-38.830	-6.572	13.081	1.00202.54		N
ATOM	688	C	GLN	88	-40.395	-5.772	7.423	1.00202.54		C
ATOM	689	O	GLN	88	-41.116	-6.683	7.019	1.00202.54		O
ATOM	690	N	SER	89	-39.441	-5.155	6.697	1.00	91.96	N
ATOM	691	CA	SER	89	-39.029	-5.435	5.353	1.00	91.96	C
ATOM	692	CB	SER	89	-39.839	-6.517	4.619	1.00	91.96	C
ATOM	693	OG	SER	89	-39.611	-7.772	5.243	1.00	91.96	O
ATOM	694	C	SER	89	-39.166	-4.136	4.632	1.00	91.96	C
ATOM	695	O	SER	89	-39.650	-3.160	5.206	1.00	91.96	O
ATOM	696	N	GLN	90	-38.708	-4.072	3.370	1.00126.71		N
ATOM	697	CA	GLN	90	-38.852	-2.851	2.633	1.00126.71		C
ATOM	698	CB	GLN	90	-37.522	-2.244	2.158	1.00126.71		C
ATOM	699	CG	GLN	90	-36.702	-1.588	3.271	1.00126.71		C
ATOM	700	CD	GLN	90	-37.041	-0.103	3.288	1.00126.71		C
ATOM	701	OE1	GLN	90	-37.868	0.355	4.075	1.00126.71		O
ATOM	702	NE2	GLN	90	-36.379	0.679	2.393	1.00126.71		N
ATOM	703	C	GLN	90	-39.670	-3.146	1.422	1.00126.71		C
ATOM	704	O	GLN	90	-39.307	-3.982	0.596	1.00126.71		O
ATOM	705	N	ALA	91	-40.830	-2.474	1.328	1.00	67.40	N
ATOM	706	CA	ALA	91	-41.739	-2.574	0.224	1.00	67.40	C
ATOM	707	CB	ALA	91	-43.075	-1.851	0.472	1.00	67.40	C
ATOM	708	C	ALA	91	-41.102	-1.959	-0.978	1.00	67.40	C
ATOM	709	O	ALA	91	-41.302	-2.411	-2.105	1.00	67.40	O
ATOM	710	N	ILE	92	-40.303	-0.901	-0.751	1.00281.31		N
ATOM	711	CA	ILE	92	-39.701	-0.158	-1.820	1.00281.31		C
ATOM	712	CB	ILE	92	-39.441	1.281	-1.442	1.00281.31		C
ATOM	713	CG2	ILE	92	-38.370	1.327	-0.338	1.00281.31		C
ATOM	714	CG1	ILE	92	-39.111	2.131	-2.677	1.00281.31		C
ATOM	715	CD1	ILE	92	-39.142	3.635	-2.399	1.00281.31		C
ATOM	716	C	ILE	92	-38.401	-0.826	-2.152	1.00281.31		C
ATOM	717	O	ILE	92	-37.597	-1.129	-1.275	1.00281.31		O
ATOM	718	N	SER	93	-38.175	-1.051	-3.464	1.00165.95		N
ATOM	719	CA	SER	93	-37.101	-1.811	-4.048	1.00165.95		C
ATOM	720	CB	SER	93	-37.100	-1.776	-5.589	1.00165.95		C
ATOM	721	OG	SER	93	-38.316	-2.296	-6.102	1.00165.95		O
ATOM	722	C	SER	93	-35.757	-1.299	-3.637	1.00165.95		C
ATOM	723	O	SER	93	-35.629	-0.467	-2.739	1.00165.95		O
ATOM	724	N	TYR	94	-34.711	-1.855	-4.294	1.00132.20		N
ATOM	725	CA	TYR	94	-33.343	-1.519	-4.020	1.00132.20		C
ATOM	726	CB	TYR	94	-32.354	-2.068	-5.059	1.00132.20		C
ATOM	727	CG	TYR	94	-32.411	-3.545	-5.161	1.00132.20		C
ATOM	728	CD1	TYR	94	-33.431	-4.164	-5.841	1.00132.20		C
ATOM	729	CD2	TYR	94	-31.415	-4.306	-4.600	1.00132.20		C
ATOM	730	CE1	TYR	94	-33.479	-5.533	-5.952	1.00132.20		C
ATOM	731	CE2	TYR	94	-31.458	-5.673	-4.708	1.00132.20		C
ATOM	732	CZ	TYR	94	-32.483	-6.287	-5.379	1.00132.20		C
ATOM	733	OH	TYR	94	-32.514	-7.692	-5.485	1.00132.20		O

ATOM	734	C	TYR	94	-33.236	-0.062	-4.257	1.00132.20	C
ATOM	735	O	TYR	94	-32.756	0.691	-3.412	1.00132.20	O
ATOM	736	N	SER	95	-33.704	0.376	-5.438	1.00168.15	N
ATOM	737	CA	SER	95	-33.664	1.780	-5.671	1.00168.15	C
ATOM	738	CB	SER	95	-34.097	2.207	-7.087	1.00168.15	C
ATOM	739	OG	SER	95	-35.468	1.906	-7.307	1.00168.15	O
ATOM	740	C	SER	95	-34.649	2.291	-4.691	1.00168.15	C
ATOM	741	O	SER	95	-35.524	1.567	-4.250	1.00168.15	O
ATOM	742	N	GLY	96	-34.531	3.526	-4.229	1.00226.83	N
ATOM	743	CA	GLY	96	-35.528	3.913	-3.286	1.00226.83	C
ATOM	744	C	GLY	96	-34.947	3.652	-1.931	1.00226.83	C
ATOM	745	O	GLY	96	-34.966	4.522	-1.066	1.00226.83	O
ATOM	746	N	CYS	97	-34.423	2.428	-1.705	1.00 83.41	N
ATOM	747	CA	CYS	97	-33.737	2.151	-0.474	1.00 83.41	C
ATOM	748	CB	CYS	97	-33.282	0.682	-0.342	1.00 83.41	C
ATOM	749	SG	CYS	97	-32.031	0.432	0.960	1.00 83.41	S
ATOM	750	C	CYS	97	-32.504	2.980	-0.511	1.00 83.41	C
ATOM	751	O	CYS	97	-32.177	3.702	0.429	1.00 83.41	O
ATOM	752	N	LEU	98	-31.802	2.867	-1.653	1.00136.56	N
ATOM	753	CA	LEU	98	-30.579	3.544	-1.956	1.00136.56	C
ATOM	754	CB	LEU	98	-29.995	3.019	-3.283	1.00136.56	C
ATOM	755	CG	LEU	98	-28.692	3.681	-3.771	1.00136.56	C
ATOM	756	CD1	LEU	98	-28.959	5.082	-4.342	1.00136.56	C
ATOM	757	CD2	LEU	98	-27.612	3.677	-2.680	1.00136.56	C
ATOM	758	C	LEU	98	-30.866	5.000	-2.092	1.00136.56	C
ATOM	759	O	LEU	98	-30.110	5.841	-1.604	1.00136.56	O
ATOM	760	N	LEU	99	-31.978	5.325	-2.779	1.00 54.58	N
ATOM	761	CA	LEU	99	-32.335	6.695	-3.019	1.00 54.58	C
ATOM	762	CB	LEU	99	-33.572	6.803	-3.926	1.00 54.58	C
ATOM	763	CG	LEU	99	-33.934	8.245	-4.312	1.00 54.58	C
ATOM	764	CD1	LEU	99	-32.862	8.852	-5.233	1.00 54.58	C
ATOM	765	CD2	LEU	99	-35.352	8.330	-4.897	1.00 54.58	C
ATOM	766	C	LEU	99	-32.682	7.358	-1.720	1.00 54.58	C
ATOM	767	O	LEU	99	-32.212	8.454	-1.419	1.00 54.58	O
ATOM	768	N	GLN	100	-33.512	6.678	-0.904	1.00 77.96	N
ATOM	769	CA	GLN	100	-33.995	7.218	0.335	1.00 77.96	C
ATOM	770	CB	GLN	100	-35.059	6.331	1.010	1.00 77.96	C
ATOM	771	CG	GLN	100	-35.593	6.902	2.328	1.00 77.96	C
ATOM	772	CD	GLN	100	-34.702	6.412	3.460	1.00 77.96	C
ATOM	773	OE1	GLN	100	-34.627	5.215	3.730	1.00 77.96	O
ATOM	774	NE2	GLN	100	-34.006	7.362	4.143	1.00 77.96	N
ATOM	775	C	GLN	100	-32.843	7.400	1.267	1.00 77.96	C
ATOM	776	O	GLN	100	-32.774	8.385	2.002	1.00 77.96	O
ATOM	777	N	LEU	101	-31.887	6.456	1.242	1.00137.13	N
ATOM	778	CA	LEU	101	-30.748	6.507	2.114	1.00137.13	C
ATOM	779	CB	LEU	101	-29.814	5.309	1.844	1.00137.13	C
ATOM	780	CG	LEU	101	-28.663	5.073	2.846	1.00137.13	C
ATOM	781	CD1	LEU	101	-27.824	3.861	2.421	1.00137.13	C
ATOM	782	CD2	LEU	101	-27.794	6.318	3.063	1.00137.13	C
ATOM	783	C	LEU	101	-30.013	7.777	1.799	1.00137.13	C
ATOM	784	O	LEU	101	-29.584	8.504	2.694	1.00137.13	O
ATOM	785	N	TYR	102	-29.881	8.075	0.493	1.00175.40	N
ATOM	786	CA	TYR	102	-29.209	9.230	-0.039	1.00175.40	C
ATOM	787	CB	TYR	102	-29.178	9.125	-1.572	1.00175.40	C
ATOM	788	CG	TYR	102	-29.277	10.467	-2.196	1.00175.40	C
ATOM	789	CD1	TYR	102	-28.195	11.299	-2.375	1.00175.40	C
ATOM	790	CD2	TYR	102	-30.519	10.873	-2.620	1.00175.40	C
ATOM	791	CE1	TYR	102	-28.378	12.527	-2.970	1.00175.40	C
ATOM	792	CE2	TYR	102	-30.706	12.094	-3.213	1.00175.40	C
ATOM	793	CZ	TYR	102	-29.627	12.925	-3.390	1.00175.40	C
ATOM	794	OH	TYR	102	-29.811	14.183	-4.000	1.00175.40	O
ATOM	795	C	TYR	102	-29.882	10.503	0.389	1.00175.40	C
ATOM	796	O	TYR	102	-29.209	11.460	0.774	1.00175.40	O
ATOM	797	N	PHE	103	-31.226	10.558	0.331	1.00 98.11	N
ATOM	798	CA	PHE	103	-31.911	11.773	0.675	1.00 98.11	C
ATOM	799	CB	PHE	103	-33.409	11.771	0.358	1.00 98.11	C
ATOM	800	CG	PHE	103	-33.732	13.209	0.511	1.00 98.11	C
ATOM	801	CD1	PHE	103	-33.492	14.068	-0.536	1.00 98.11	C
ATOM	802	CD2	PHE	103	-34.237	13.698	1.693	1.00 98.11	C
ATOM	803	CE1	PHE	103	-33.763	15.406	-0.421	1.00 98.11	C
ATOM	804	CE2	PHE	103	-34.512	15.040	1.815	1.00 98.11	C
ATOM	805	CZ	PHE	103	-34.275	15.887	0.760	1.00 98.11	C
ATOM	806	C	PHE	103	-31.763	12.050	2.138	1.00 98.11	C
ATOM	807	O	PHE	103	-31.638	13.204	2.553	1.00 98.11	O
ATOM	808	N	PHE	104	-31.788	10.990	2.965	1.00 52.16	N
ATOM	809	CA	PHE	104	-31.676	11.154	4.385	1.00 52.16	C
ATOM	810	CB	PHE	104	-31.625	9.804	5.118	1.00 52.16	C

ATOM	811	CG	PHE	104	-31.214	10.058	6.528	1.00	52.16	C
ATOM	812	CD1	PHE	104	-32.126	10.442	7.483	1.00	52.16	C
ATOM	813	CD2	PHE	104	-29.896	9.901	6.888	1.00	52.16	C
ATOM	814	CE1	PHE	104	-31.725	10.668	8.781	1.00	52.16	C
ATOM	815	CE2	PHE	104	-29.489	10.125	8.181	1.00	52.16	C
ATOM	816	CZ	PHE	104	-30.405	10.510	9.130	1.00	52.16	C
ATOM	817	C	PHE	104	-30.395	11.865	4.683	1.00	52.16	C
ATOM	818	O	PHE	104	-30.382	12.858	5.408	1.00	52.16	O
ATOM	819	N	MET	105	-29.287	11.385	4.092	1.00	48.35	N
ATOM	820	CA	MET	105	-27.970	11.914	4.313	1.00	48.35	C
ATOM	821	CB	MET	105	-26.917	11.166	3.482	1.00	48.35	C
ATOM	822	CG	MET	105	-26.743	9.695	3.863	1.00	48.35	C
ATOM	823	SD	MET	105	-25.834	8.705	2.637	1.00	48.35	S
ATOM	824	CE	MET	105	-24.285	9.640	2.771	1.00	48.35	C
ATOM	825	C	MET	105	-27.923	13.340	3.846	1.00	48.35	C
ATOM	826	O	MET	105	-27.318	14.195	4.490	1.00	48.35	O
ATOM	827	N	LEU	106	-28.561	13.624	2.696	1.00	59.53	N
ATOM	828	CA	LEU	106	-28.532	14.914	2.065	1.00	59.53	C
ATOM	829	CB	LEU	106	-29.357	14.884	0.768	1.00	59.53	C
ATOM	830	CG	LEU	106	-29.308	16.156	-0.090	1.00	59.53	C
ATOM	831	CD1	LEU	106	-27.924	16.338	-0.733	1.00	59.53	C
ATOM	832	CD2	LEU	106	-30.459	16.168	-1.110	1.00	59.53	C
ATOM	833	C	LEU	106	-29.162	15.925	2.978	1.00	59.53	C
ATOM	834	O	LEU	106	-28.587	16.974	3.258	1.00	59.53	O
ATOM	835	N	PHE	107	-30.347	15.601	3.520	1.00116.96	N	
ATOM	836	CA	PHE	107	-31.107	16.488	4.363	1.00116.96	C	
ATOM	837	CB	PHE	107	-32.422	15.851	4.843	1.00116.96	C	
ATOM	838	CG	PHE	107	-32.771	16.456	6.163	1.00116.96	C	
ATOM	839	CD1	PHE	107	-33.139	17.775	6.288	1.00116.96	C	
ATOM	840	CD2	PHE	107	-32.738	15.671	7.294	1.00116.96	C	
ATOM	841	CE1	PHE	107	-33.460	18.301	7.518	1.00116.96	C	
ATOM	842	CE2	PHE	107	-33.057	16.187	8.527	1.00116.96	C	
ATOM	843	CZ	PHE	107	-33.420	17.509	8.639	1.00116.96	C	
ATOM	844	C	PHE	107	-30.351	16.860	5.588	1.00116.96	C	
ATOM	845	O	PHE	107	-30.322	18.032	5.962	1.00116.96	O	
ATOM	846	N	VAL	108	-29.748	15.866	6.259	1.00107.52	N	
ATOM	847	CA	VAL	108	-29.033	16.140	7.466	1.00107.52	C	
ATOM	848	CB	VAL	108	-28.542	14.906	8.166	1.00107.52	C	
ATOM	849	CG1	VAL	108	-27.708	14.056	7.198	1.00107.52	C	
ATOM	850	CG2	VAL	108	-27.728	15.369	9.382	1.00107.52	C	
ATOM	851	C	VAL	108	-27.843	17.007	7.180	1.00107.52	C	
ATOM	852	O	VAL	108	-27.555	17.934	7.935	1.00107.52	O	
ATOM	853	N	MET	109	-27.120	16.720	6.078	1.00113.01	N	
ATOM	854	CA	MET	109	-25.919	17.425	5.719	1.00113.01	C	
ATOM	855	CB	MET	109	-25.297	16.860	4.434	1.00113.01	C	
ATOM	856	CG	MET	109	-23.891	17.377	4.135	1.00113.01	C	
ATOM	857	SD	MET	109	-23.209	16.776	2.562	1.00113.01	S	
ATOM	858	CE	MET	109	-23.452	15.020	2.954	1.00113.01	C	
ATOM	859	C	MET	109	-26.237	18.861	5.439	1.00113.01	C	
ATOM	860	O	MET	109	-25.549	19.770	5.901	1.00113.01	O	
ATOM	861	N	LEU	110	-27.321	19.080	4.678	1.00114.29	N	
ATOM	862	CA	LEU	110	-27.768	20.372	4.253	1.00114.29	C	
ATOM	863	CB	LEU	110	-29.050	20.199	3.403	1.00114.29	C	
ATOM	864	CG	LEU	110	-29.736	21.445	2.804	1.00114.29	C	
ATOM	865	CD1	LEU	110	-30.981	20.991	2.043	1.00114.29	C	
ATOM	866	CD2	LEU	110	-30.110	22.521	3.831	1.00114.29	C	
ATOM	867	C	LEU	110	-28.103	21.172	5.475	1.00114.29	C	
ATOM	868	O	LEU	110	-27.752	22.344	5.582	1.00114.29	O	
ATOM	869	N	GLU	111	-28.799	20.556	6.448	1.00	84.58	N
ATOM	870	CA	GLU	111	-29.242	21.338	7.565	1.00	84.58	C
ATOM	871	CB	GLU	111	-30.115	20.555	8.559	1.00	84.58	C
ATOM	872	CG	GLU	111	-30.722	21.443	9.651	1.00	84.58	C
ATOM	873	CD	GLU	111	-31.486	20.544	10.611	1.00	84.58	C
ATOM	874	OE1	GLU	111	-32.138	19.581	10.129	1.00	84.58	O
ATOM	875	OE2	GLU	111	-31.421	20.806	11.842	1.00	84.58	O
ATOM	876	C	GLU	111	-28.077	21.878	8.337	1.00	84.58	C
ATOM	877	O	GLU	111	-28.038	23.065	8.656	1.00	84.58	O
ATOM	878	N	ALA	112	-27.087	21.020	8.644	1.00	41.11	N
ATOM	879	CA	ALA	112	-25.968	21.422	9.448	1.00	41.11	C
ATOM	880	CB	ALA	112	-25.003	20.261	9.736	1.00	41.11	C
ATOM	881	C	ALA	112	-25.193	22.476	8.737	1.00	41.11	C
ATOM	882	O	ALA	112	-24.782	23.459	9.352	1.00	41.11	O
ATOM	883	N	PHE	113	-24.982	22.299	7.418	1.00142.59	N	
ATOM	884	CA	PHE	113	-24.199	23.230	6.660	1.00142.59	C	
ATOM	885	CB	PHE	113	-23.882	22.753	5.234	1.00142.59	C	
ATOM	886	CG	PHE	113	-22.723	21.828	5.384	1.00142.59	C	
ATOM	887	CD1	PHE	113	-22.889	20.490	5.670	1.00142.59	C	

ATOM	888	CD2	PHE	113	-21.449	22.328	5.251	1.00142.59	C
ATOM	889	CE1	PHE	113	-21.793	19.669	5.805	1.00142.59	C
ATOM	890	CE2	PHE	113	-20.352	21.514	5.386	1.00142.59	C
ATOM	891	CZ	PHE	113	-20.523	20.180	5.666	1.00142.59	C
ATOM	892	C	PHE	113	-24.863	24.570	6.638	1.00142.59	C
ATOM	893	O	PHE	113	-24.193	25.593	6.765	1.00142.59	O
ATOM	894	N	LEU	114	-26.197	24.608	6.475	1.00 53.06	N
ATOM	895	CA	LEU	114	-26.886	25.867	6.495	1.00 53.06	C
ATOM	896	CB	LEU	114	-28.394	25.742	6.240	1.00 53.06	C
ATOM	897	CG	LEU	114	-28.797	25.664	4.760	1.00 53.06	C
ATOM	898	CD1	LEU	114	-28.006	24.593	3.993	1.00 53.06	C
ATOM	899	CD2	LEU	114	-30.315	25.467	4.663	1.00 53.06	C
ATOM	900	C	LEU	114	-26.715	26.505	7.838	1.00 53.06	C
ATOM	901	O	LEU	114	-26.461	27.705	7.933	1.00 53.06	O
ATOM	902	N	LEU	115	-26.822	25.712	8.919	1.00 52.49	N
ATOM	903	CA	LEU	115	-26.707	26.265	10.237	1.00 52.49	C
ATOM	904	CB	LEU	115	-26.740	25.206	11.356	1.00 52.49	C
ATOM	905	CG	LEU	115	-28.120	24.570	11.572	1.00 52.49	C
ATOM	906	CD1	LEU	115	-28.108	23.546	12.719	1.00 52.49	C
ATOM	907	CD2	LEU	115	-29.170	25.664	11.780	1.00 52.49	C
ATOM	908	C	LEU	115	-25.372	26.921	10.347	1.00 52.49	C
ATOM	909	O	LEU	115	-25.258	28.017	10.891	1.00 52.49	O
ATOM	910	N	ALA	116	-24.325	26.262	9.824	1.00 32.11	N
ATOM	911	CA	ALA	116	-22.995	26.787	9.907	1.00 32.11	C
ATOM	912	CB	ALA	116	-21.934	25.865	9.291	1.00 32.11	C
ATOM	913	C	ALA	116	-22.933	28.082	9.162	1.00 32.11	C
ATOM	914	O	ALA	116	-22.264	29.017	9.595	1.00 32.11	O
ATOM	915	N	VAL	117	-23.623	28.157	8.008	1.00 31.87	N
ATOM	916	CA	VAL	117	-23.618	29.332	7.183	1.00 31.87	C
ATOM	917	CB	VAL	117	-24.400	29.144	5.915	1.00 31.87	C
ATOM	918	CG1	VAL	117	-24.374	30.451	5.102	1.00 31.87	C
ATOM	919	CG2	VAL	117	-23.813	27.937	5.167	1.00 31.87	C
ATOM	920	C	VAL	117	-24.237	30.458	7.943	1.00 31.87	C
ATOM	921	O	VAL	117	-23.794	31.601	7.842	1.00 31.87	O
ATOM	922	N	MET	118	-25.298	30.168	8.716	1.00 44.75	N
ATOM	923	CA	MET	118	-25.968	31.193	9.457	1.00 44.75	C
ATOM	924	CB	MET	118	-27.262	30.682	10.103	1.00 44.75	C
ATOM	925	CG	MET	118	-28.225	30.174	9.026	1.00 44.75	C
ATOM	926	SD	MET	118	-29.811	29.533	9.628	1.00 44.75	S
ATOM	927	CE	MET	118	-30.476	31.174	10.023	1.00 44.75	C
ATOM	928	C	MET	118	-25.044	31.751	10.504	1.00 44.75	C
ATOM	929	O	MET	118	-25.046	32.953	10.761	1.00 44.75	O
ATOM	930	N	ALA	119	-24.234	30.887	11.147	1.00 32.78	N
ATOM	931	CA	ALA	119	-23.325	31.314	12.178	1.00 32.78	C
ATOM	932	CB	ALA	119	-22.598	30.138	12.853	1.00 32.78	C
ATOM	933	C	ALA	119	-22.276	32.228	11.609	1.00 32.78	C
ATOM	934	O	ALA	119	-21.898	33.223	12.225	1.00 32.78	O
ATOM	935	N	TYR	120	-21.746	31.902	10.419	1.00135.64	N
ATOM	936	CA	TYR	120	-20.732	32.733	9.834	1.00135.64	C
ATOM	937	CB	TYR	120	-20.172	32.142	8.528	1.00135.64	C
ATOM	938	CG	TYR	120	-19.085	33.014	7.995	1.00135.64	C
ATOM	939	CD1	TYR	120	-17.778	32.807	8.380	1.00135.64	C
ATOM	940	CD2	TYR	120	-19.365	34.031	7.110	1.00135.64	C
ATOM	941	CE1	TYR	120	-16.767	33.599	7.890	1.00135.64	C
ATOM	942	CE2	TYR	120	-18.356	34.828	6.617	1.00135.64	C
ATOM	943	CZ	TYR	120	-17.058	34.611	7.008	1.00135.64	C
ATOM	944	OH	TYR	120	-16.020	35.423	6.506	1.00135.64	O
ATOM	945	C	TYR	120	-21.357	34.053	9.500	1.00135.64	C
ATOM	946	O	TYR	120	-20.782	35.108	9.760	1.00135.64	O
ATOM	947	N	ASP	121	-22.574	34.012	8.922	1.00 48.08	N
ATOM	948	CA	ASP	121	-23.263	35.187	8.468	1.00 48.08	C
ATOM	949	CB	ASP	121	-24.590	34.836	7.776	1.00 48.08	C
ATOM	950	CG	ASP	121	-25.024	36.020	6.925	1.00 48.08	C
ATOM	951	OD1	ASP	121	-24.285	37.037	6.881	1.00 48.08	O
ATOM	952	OD2	ASP	121	-26.106	35.907	6.297	1.00 48.08	O
ATOM	953	C	ASP	121	-23.564	36.080	9.636	1.00 48.08	C
ATOM	954	O	ASP	121	-23.397	37.295	9.550	1.00 48.08	O
ATOM	955	N	CYS	122	-24.017	35.505	10.766	1.00 87.53	N
ATOM	956	CA	CYS	122	-24.336	36.306	11.916	1.00 87.53	C
ATOM	957	CB	CYS	122	-25.045	35.533	13.048	1.00 87.53	C
ATOM	958	SG	CYS	122	-24.020	34.257	13.829	1.00 87.53	S
ATOM	959	C	CYS	122	-23.083	36.917	12.466	1.00 87.53	C
ATOM	960	O	CYS	122	-23.106	38.020	13.010	1.00 87.53	O
ATOM	961	N	TYR	123	-21.948	36.204	12.360	1.00 56.64	N
ATOM	962	CA	TYR	123	-20.712	36.714	12.879	1.00 56.64	C
ATOM	963	CB	TYR	123	-19.559	35.719	12.638	1.00 56.64	C
ATOM	964	CG	TYR	123	-18.238	36.368	12.884	1.00 56.64	C

ATOM	965	CD1	TYR	123	-17.746	36.542	14.158	1.00	56.64	C
ATOM	966	CD2	TYR	123	-17.475	36.786	11.815	1.00	56.64	C
ATOM	967	CE1	TYR	123	-16.521	37.138	14.360	1.00	56.64	C
ATOM	968	CE2	TYR	123	-16.251	37.381	12.011	1.00	56.64	C
ATOM	969	CZ	TYR	123	-15.772	37.556	13.286	1.00	56.64	C
ATOM	970	OH	TYR	123	-14.515	38.166	13.490	1.00	56.64	O
ATOM	971	C	TYR	123	-20.388	37.995	12.174	1.00	56.64	C
ATOM	972	O	TYR	123	-20.105	39.004	12.818	1.00	56.64	O
ATOM	973	N	VAL	124	-20.448	38.002	10.827	1.00	94.21	N
ATOM	974	CA	VAL	124	-20.118	39.192	10.092	1.00	94.21	C
ATOM	975	CB	VAL	124	-20.068	38.999	8.605	1.00	94.21	C
ATOM	976	CG1	VAL	124	-18.952	37.992	8.292	1.00	94.21	C
ATOM	977	CG2	VAL	124	-21.460	38.586	8.097	1.00	94.21	C
ATOM	978	C	VAL	124	-21.133	40.252	10.366	1.00	94.21	C
ATOM	979	O	VAL	124	-20.799	41.428	10.499	1.00	94.21	O
ATOM	980	N	ALA	125	-22.415	39.865	10.460	1.00	34.81	N
ATOM	981	CA	ALA	125	-23.433	40.855	10.634	1.00	34.81	C
ATOM	982	CB	ALA	125	-24.836	40.232	10.725	1.00	34.81	C
ATOM	983	C	ALA	125	-23.192	41.601	11.909	1.00	34.81	C
ATOM	984	O	ALA	125	-23.245	42.830	11.931	1.00	34.81	O
ATOM	985	N	ILE	126	-22.901	40.875	13.005	1.00	74.99	N
ATOM	986	CA	ILE	126	-22.731	41.489	14.295	1.00	74.99	C
ATOM	987	CB	ILE	126	-22.759	40.520	15.450	1.00	74.99	C
ATOM	988	CG2	ILE	126	-21.480	39.666	15.427	1.00	74.99	C
ATOM	989	CG1	ILE	126	-22.982	41.285	16.769	1.00	74.99	C
ATOM	990	CD1	ILE	126	-23.432	40.395	17.927	1.00	74.99	C
ATOM	991	C	ILE	126	-21.490	42.331	14.365	1.00	74.99	C
ATOM	992	O	ILE	126	-21.463	43.334	15.077	1.00	74.99	O
ATOM	993	N	CYS	127	-20.397	41.896	13.706	1.00	96.39	N
ATOM	994	CA	CYS	127	-19.150	42.617	13.726	1.00	96.39	C
ATOM	995	CB	CYS	127	-17.954	41.794	13.198	1.00	96.39	C
ATOM	996	SG	CYS	127	-18.102	41.320	11.451	1.00	96.39	S
ATOM	997	C	CYS	127	-19.203	43.906	12.945	1.00	96.39	C
ATOM	998	O	CYS	127	-18.605	44.900	13.355	1.00	96.39	O
ATOM	999	N	HIS	128	-19.920	43.943	11.804	1.00	100.00	N
ATOM	1000	CA	HIS	128	-19.838	45.097	10.942	1.00	100.00	C
ATOM	1001	ND1	HIS	128	-17.938	44.592	8.620	1.00	100.00	N
ATOM	1002	CG	HIS	128	-19.229	44.122	8.723	1.00	100.00	C
ATOM	1003	CB	HIS	128	-20.295	44.842	9.497	1.00	100.00	C
ATOM	1004	NE2	HIS	128	-18.018	42.698	7.460	1.00	100.00	N
ATOM	1005	CD2	HIS	128	-19.263	42.964	8.009	1.00	100.00	C
ATOM	1006	CE1	HIS	128	-17.258	43.700	7.853	1.00	100.00	C
ATOM	1007	C	HIS	128	-20.513	46.325	11.476	1.00	100.00	C
ATOM	1008	O	HIS	128	-21.463	46.275	12.259	1.00	100.00	O
ATOM	1009	N	PRO	129	-19.974	47.455	11.066	1.00	144.23	N
ATOM	1010	CA	PRO	129	-20.449	48.764	11.429	1.00	144.23	C
ATOM	1011	CD	PRO	129	-18.950	47.502	10.035	1.00	144.23	C
ATOM	1012	CB	PRO	129	-19.513	49.755	10.738	1.00	144.23	C
ATOM	1013	CG	PRO	129	-18.964	48.960	9.540	1.00	144.23	C
ATOM	1014	C	PRO	129	-21.884	48.923	11.036	1.00	144.23	C
ATOM	1015	O	PRO	129	-22.608	49.614	11.752	1.00	144.23	O
ATOM	1016	N	LEU	130	-22.314	48.348	9.893	1.00	108.25	N
ATOM	1017	CA	LEU	130	-23.724	48.341	9.638	1.00	108.25	C
ATOM	1018	CB	LEU	130	-24.120	48.225	8.152	1.00	108.25	C
ATOM	1019	CG	LEU	130	-23.881	49.498	7.317	1.00	108.25	C
ATOM	1020	CD1	LEU	130	-24.824	50.636	7.749	1.00	108.25	C
ATOM	1021	CD2	LEU	130	-22.406	49.916	7.334	1.00	108.25	C
ATOM	1022	C	LEU	130	-24.144	47.085	10.312	1.00	108.25	C
ATOM	1023	O	LEU	130	-24.226	46.022	9.701	1.00	108.25	O
ATOM	1024	N	HIS	131	-24.435	47.209	11.615	1.00	126.85	N
ATOM	1025	CA	HIS	131	-24.668	46.085	12.463	1.00	126.85	C
ATOM	1026	ND1	HIS	131	-25.394	48.944	13.986	1.00	126.85	N
ATOM	1027	CG	HIS	131	-25.729	47.615	14.150	1.00	126.85	C
ATOM	1028	CB	HIS	131	-24.773	46.481	13.944	1.00	126.85	C
ATOM	1029	NE2	HIS	131	-27.541	48.894	14.564	1.00	126.85	N
ATOM	1030	CD2	HIS	131	-27.043	47.605	14.502	1.00	126.85	C
ATOM	1031	CE1	HIS	131	-26.515	49.662	14.245	1.00	126.85	C
ATOM	1032	C	HIS	131	-25.918	45.364	12.094	1.00	126.85	C
ATOM	1033	O	HIS	131	-26.920	45.955	11.697	1.00	126.85	O
ATOM	1034	N	TYR	132	-25.830	44.028	12.215	1.00	228.41	N
ATOM	1035	CA	TYR	132	-26.883	43.080	12.041	1.00	228.41	C
ATOM	1036	CB	TYR	132	-28.117	43.418	12.898	1.00	228.41	C
ATOM	1037	CG	TYR	132	-27.672	43.380	14.323	1.00	228.41	C
ATOM	1038	CD1	TYR	132	-27.505	42.180	14.970	1.00	228.41	C
ATOM	1039	CD2	TYR	132	-27.425	44.544	15.018	1.00	228.41	C
ATOM	1040	CE1	TYR	132	-27.094	42.136	16.282	1.00	228.41	C
ATOM	1041	CE2	TYR	132	-27.014	44.505	16.332	1.00	228.41	C

ATOM	1042	CZ	TYR	132	-26.842	43.299	16.965	1.00228.41	C
ATOM	1043	OH	TYR	132	-26.419	43.250	18.310	1.00228.41	O
ATOM	1044	C	TYR	132	-27.291	43.004	10.609	1.00228.41	C
ATOM	1045	O	TYR	132	-28.066	42.125	10.240	1.00228.41	O
ATOM	1046	N	ILE	133	-26.742	43.862	9.731	1.00126.00	N
ATOM	1047	CA	ILE	133	-27.116	43.685	8.363	1.00126.00	C
ATOM	1048	CB	ILE	133	-27.054	44.910	7.497	1.00126.00	C
ATOM	1049	CG2	ILE	133	-25.596	45.382	7.410	1.00126.00	C
ATOM	1050	CG1	ILE	133	-27.683	44.598	6.128	1.00126.00	C
ATOM	1051	CD1	ILE	133	-27.893	45.826	5.244	1.00126.00	C
ATOM	1052	C	ILE	133	-26.154	42.693	7.819	1.00126.00	C
ATOM	1053	O	ILE	133	-24.946	42.787	8.024	1.00126.00	O
ATOM	1054	N	LEU	134	-26.683	41.670	7.137	1.00 91.45	N
ATOM	1055	CA	LEU	134	-25.819	40.670	6.605	1.00 91.45	C
ATOM	1056	CB	LEU	134	-26.610	39.443	6.124	1.00 91.45	C
ATOM	1057	CG	LEU	134	-27.363	38.796	7.307	1.00 91.45	C
ATOM	1058	CD1	LEU	134	-28.190	37.576	6.892	1.00 91.45	C
ATOM	1059	CD2	LEU	134	-26.394	38.481	8.455	1.00 91.45	C
ATOM	1060	C	LEU	134	-25.084	41.309	5.477	1.00 91.45	C
ATOM	1061	O	LEU	134	-25.601	42.203	4.811	1.00 91.45	O
ATOM	1062	N	ILE	135	-23.826	40.895	5.259	1.00 93.26	N
ATOM	1063	CA	ILE	135	-23.067	41.510	4.212	1.00 93.26	C
ATOM	1064	CB	ILE	135	-21.655	41.004	4.094	1.00 93.26	C
ATOM	1065	CG2	ILE	135	-20.915	41.325	5.404	1.00 93.26	C
ATOM	1066	CG1	ILE	135	-21.630	39.517	3.708	1.00 93.26	C
ATOM	1067	CD1	ILE	135	-20.258	39.045	3.226	1.00 93.26	C
ATOM	1068	C	ILE	135	-23.745	41.211	2.912	1.00 93.26	C
ATOM	1069	O	ILE	135	-23.825	42.064	2.029	1.00 93.26	O
ATOM	1070	N	MET	136	-24.261	39.974	2.775	1.00128.96	N
ATOM	1071	CA	MET	136	-24.803	39.477	1.543	1.00128.96	C
ATOM	1072	CB	MET	136	-24.992	37.954	1.558	1.00128.96	C
ATOM	1073	CG	MET	136	-23.704	37.211	1.903	1.00128.96	C
ATOM	1074	SD	MET	136	-22.346	37.452	0.724	1.00128.96	S
ATOM	1075	CE	MET	136	-21.186	36.432	1.678	1.00128.96	C
ATOM	1076	C	MET	136	-26.152	40.053	1.223	1.00128.96	C
ATOM	1077	O	MET	136	-26.932	40.393	2.110	1.00128.96	O
ATOM	1078	N	SER	137	-26.426	40.181	-0.096	1.00108.40	N
ATOM	1079	CA	SER	137	-27.702	40.597	-0.615	1.00108.40	C
ATOM	1080	CB	SER	137	-27.634	41.254	-2.007	1.00108.40	C
ATOM	1081	OG	SER	137	-27.173	40.322	-2.974	1.00108.40	O
ATOM	1082	C	SER	137	-28.510	39.340	-0.747	1.00108.40	C
ATOM	1083	O	SER	137	-28.001	38.254	-0.498	1.00108.40	O
ATOM	1084	N	PRO	138	-29.766	39.440	-1.101	1.00 95.89	N
ATOM	1085	CA	PRO	138	-30.558	38.251	-1.245	1.00 95.89	C
ATOM	1086	CD	PRO	138	-30.584	40.596	-0.789	1.00 95.89	C
ATOM	1087	CB	PRO	138	-32.019	38.708	-1.308	1.00 95.89	C
ATOM	1088	CG	PRO	138	-31.945	40.244	-1.416	1.00 95.89	C
ATOM	1089	C	PRO	138	-30.113	37.376	-2.377	1.00 95.89	C
ATOM	1090	O	PRO	138	-30.295	36.164	-2.282	1.00 95.89	O
ATOM	1091	N	GLY	139	-29.557	37.959	-3.458	1.00 17.69	N
ATOM	1092	CA	GLY	139	-29.103	37.192	-4.584	1.00 17.69	C
ATOM	1093	C	GLY	139	-27.929	36.363	-4.172	1.00 17.69	C
ATOM	1094	O	GLY	139	-27.791	35.211	-4.581	1.00 17.69	O
ATOM	1095	N	LEU	140	-27.041	36.960	-3.355	1.00 39.45	N
ATOM	1096	CA	LEU	140	-25.844	36.315	-2.890	1.00 39.45	C
ATOM	1097	CB	LEU	140	-25.036	37.206	-1.930	1.00 39.45	C
ATOM	1098	CG	LEU	140	-24.521	38.526	-2.533	1.00 39.45	C
ATOM	1099	CD1	LEU	140	-23.729	39.335	-1.493	1.00 39.45	C
ATOM	1100	CD2	LEU	140	-23.720	38.283	-3.822	1.00 39.45	C
ATOM	1101	C	LEU	140	-26.261	35.144	-2.065	1.00 39.45	C
ATOM	1102	O	LEU	140	-25.672	34.068	-2.146	1.00 39.45	O
ATOM	1103	N	CYS	141	-27.314	35.347	-1.253	1.00 68.84	N
ATOM	1104	CA	CYS	141	-27.785	34.347	-0.344	1.00 68.84	C
ATOM	1105	CB	CYS	141	-29.002	34.802	0.478	1.00 68.84	C
ATOM	1106	SG	CYS	141	-29.602	33.502	1.601	1.00 68.84	S
ATOM	1107	C	CYS	141	-28.218	33.140	-1.109	1.00 68.84	C
ATOM	1108	O	CYS	141	-27.971	32.014	-0.682	1.00 68.84	O
ATOM	1109	N	ILE	142	-28.890	33.340	-2.256	1.00 86.25	N
ATOM	1110	CA	ILE	142	-29.335	32.211	-3.020	1.00 86.25	C
ATOM	1111	CB	ILE	142	-30.163	32.563	-4.220	1.00 86.25	C
ATOM	1112	CG2	ILE	142	-30.224	31.308	-5.103	1.00 86.25	C
ATOM	1113	CG1	ILE	142	-31.546	33.090	-3.798	1.00 86.25	C
ATOM	1114	CD1	ILE	142	-32.383	32.058	-3.039	1.00 86.25	C
ATOM	1115	C	ILE	142	-28.149	31.436	-3.504	1.00 86.25	C
ATOM	1116	O	ILE	142	-28.166	30.207	-3.503	1.00 86.25	O
ATOM	1117	N	PHE	143	-27.079	32.122	-3.942	1.00 29.28	N
ATOM	1118	CA	PHE	143	-25.949	31.404	-4.459	1.00 29.28	C

ATOM	1119	CB	PHE	143	-24.805	32.317	-4.932	1.00	29.28	C
ATOM	1120	CG	PHE	143	-23.737	31.424	-5.465	1.00	29.28	C
ATOM	1121	CD1	PHE	143	-23.831	30.934	-6.747	1.00	29.28	C
ATOM	1122	CD2	PHE	143	-22.648	31.073	-4.698	1.00	29.28	C
ATOM	1123	CE1	PHE	143	-22.862	30.107	-7.260	1.00	29.28	C
ATOM	1124	CE2	PHE	143	-21.674	30.246	-5.206	1.00	29.28	C
ATOM	1125	CZ	PHE	143	-21.779	29.762	-6.488	1.00	29.28	C
ATOM	1126	C	PHE	143	-25.392	30.543	-3.372	1.00	29.28	C
ATOM	1127	O	PHE	143	-25.089	29.371	-3.589	1.00	29.28	O
ATOM	1128	N	LEU	144	-25.251	31.106	-2.159	1.00	85.76	N
ATOM	1129	CA	LEU	144	-24.663	30.364	-1.085	1.00	85.76	C
ATOM	1130	CB	LEU	144	-24.502	31.228	0.189	1.00	85.76	C
ATOM	1131	CG	LEU	144	-23.761	30.586	1.387	1.00	85.76	C
ATOM	1132	CD1	LEU	144	-23.533	31.627	2.495	1.00	85.76	C
ATOM	1133	CD2	LEU	144	-24.471	29.340	1.942	1.00	85.76	C
ATOM	1134	C	LEU	144	-25.531	29.179	-0.787	1.00	85.76	C
ATOM	1135	O	LEU	144	-25.028	28.069	-0.622	1.00	85.76	O
ATOM	1136	N	VAL	145	-26.861	29.377	-0.714	1.00	93.73	N
ATOM	1137	CA	VAL	145	-27.732	28.292	-0.364	1.00	93.73	C
ATOM	1138	CB	VAL	145	-29.155	28.718	-0.149	1.00	93.73	C
ATOM	1139	CG1	VAL	145	-29.182	29.723	1.018	1.00	93.73	C
ATOM	1140	CG2	VAL	145	-29.730	29.256	-1.466	1.00	93.73	C
ATOM	1141	C	VAL	145	-27.694	27.235	-1.425	1.00	93.73	C
ATOM	1142	O	VAL	145	-27.585	26.049	-1.121	1.00	93.73	O
ATOM	1143	N	SER	146	-27.754	27.636	-2.708	1.00	65.30	N
ATOM	1144	CA	SER	146	-27.762	26.663	-3.761	1.00	65.30	C
ATOM	1145	CB	SER	146	-27.866	27.296	-5.158	1.00	65.30	C
ATOM	1146	OG	SER	146	-29.130	27.926	-5.307	1.00	65.30	O
ATOM	1147	C	SER	146	-26.481	25.900	-3.685	1.00	65.30	C
ATOM	1148	O	SER	146	-26.458	24.687	-3.888	1.00	65.30	O
ATOM	1149	N	ALA	147	-25.377	26.599	-3.369	1.00	22.72	N
ATOM	1150	CA	ALA	147	-24.096	25.965	-3.284	1.00	22.72	C
ATOM	1151	CB	ALA	147	-22.962	26.944	-2.941	1.00	22.72	C
ATOM	1152	C	ALA	147	-24.148	24.951	-2.190	1.00	22.72	C
ATOM	1153	O	ALA	147	-23.616	23.854	-2.328	1.00	22.72	O
ATOM	1154	N	SER	148	-24.809	25.286	-1.067	1.00	68.28	N
ATOM	1155	CA	SER	148	-24.847	24.386	0.049	1.00	68.28	C
ATOM	1156	CB	SER	148	-25.619	24.961	1.251	1.00	68.28	C
ATOM	1157	OG	SER	148	-25.598	24.040	2.330	1.00	68.28	O
ATOM	1158	C	SER	148	-25.513	23.118	-0.384	1.00	68.28	C
ATOM	1159	O	SER	148	-25.070	22.025	-0.033	1.00	68.28	O
ATOM	1160	N	TRP	149	-26.598	23.213	-1.171	1.00	79.51	N
ATOM	1161	CA	TRP	149	-27.234	22.007	-1.612	1.00	79.51	C
ATOM	1162	CB	TRP	149	-28.519	22.235	-2.415	1.00	79.51	C
ATOM	1163	CG	TRP	149	-29.757	22.495	-1.601	1.00	79.51	C
ATOM	1164	CD2	TRP	149	-30.693	21.448	-1.288	1.00	79.51	C
ATOM	1165	CD1	TRP	149	-30.278	23.647	-1.085	1.00	79.51	C
ATOM	1166	NE1	TRP	149	-31.490	23.385	-0.488	1.00	79.51	N
ATOM	1167	CE2	TRP	149	-31.757	22.038	-0.604	1.00	79.51	C
ATOM	1168	CE3	TRP	149	-30.669	20.116	-1.571	1.00	79.51	C
ATOM	1169	CZ2	TRP	149	-32.831	21.289	-0.202	1.00	79.51	C
ATOM	1170	CZ3	TRP	149	-31.736	19.361	-1.134	1.00	79.51	C
ATOM	1171	CH2	TRP	149	-32.796	19.938	-0.465	1.00	79.51	C
ATOM	1172	C	TRP	149	-26.306	21.221	-2.485	1.00	79.51	C
ATOM	1173	O	TRP	149	-26.239	19.999	-2.373	1.00	79.51	O
ATOM	1174	N	ILE	150	-25.572	21.889	-3.394	1.00	37.52	N
ATOM	1175	CA	ILE	150	-24.731	21.143	-4.284	1.00	37.52	C
ATOM	1176	CB	ILE	150	-24.084	21.997	-5.335	1.00	37.52	C
ATOM	1177	CG2	ILE	150	-23.057	21.137	-6.088	1.00	37.52	C
ATOM	1178	CG1	ILE	150	-25.161	22.609	-6.249	1.00	37.52	C
ATOM	1179	CD1	ILE	150	-24.614	23.640	-7.234	1.00	37.52	C
ATOM	1180	C	ILE	150	-23.660	20.431	-3.512	1.00	37.52	C
ATOM	1181	O	ILE	150	-23.437	19.239	-3.722	1.00	37.52	O
ATOM	1182	N	MET	151	-22.975	21.110	-2.575	1.00	109.73	N
ATOM	1183	CA	MET	151	-21.920	20.419	-1.885	1.00	109.73	C
ATOM	1184	CB	MET	151	-21.100	21.318	-0.948	1.00	109.73	C
ATOM	1185	CG	MET	151	-20.090	22.205	-1.684	1.00	109.73	C
ATOM	1186	SD	MET	151	-20.798	23.536	-2.694	1.00	109.73	S
ATOM	1187	CE	MET	151	-20.991	22.522	-4.188	1.00	109.73	C
ATOM	1188	C	MET	151	-22.500	19.287	-1.093	1.00	109.73	C
ATOM	1189	O	MET	151	-21.921	18.204	-1.023	1.00	109.73	O
ATOM	1190	N	ASN	152	-23.679	19.524	-0.489	1.00	98.01	N
ATOM	1191	CA	ASN	152	-24.418	18.580	0.303	1.00	98.01	C
ATOM	1192	CB	ASN	152	-25.770	19.208	0.701	1.00	98.01	C
ATOM	1193	CG	ASN	152	-26.714	18.176	1.284	1.00	98.01	C
ATOM	1194	OD1	ASN	152	-26.295	17.141	1.801	1.00	98.01	O
ATOM	1195	ND2	ASN	152	-28.036	18.481	1.160	1.00	98.01	N

ATOM	1196	C	ASN	152	-24.698	17.376	-0.540	1.00	98.01	C
ATOM	1197	O	ASN	152	-24.510	16.242	-0.102	1.00	98.01	O
ATOM	1198	N	ALA	153	-25.164	17.601	-1.781	1.00	33.08	N
ATOM	1199	CA	ALA	153	-25.492	16.532	-2.679	1.00	33.08	C
ATOM	1200	CB	ALA	153	-26.122	17.041	-3.987	1.00	33.08	C
ATOM	1201	C	ALA	153	-24.257	15.769	-3.038	1.00	33.08	C
ATOM	1202	O	ALA	153	-24.257	14.539	-3.041	1.00	33.08	O
ATOM	1203	N	LEU	154	-23.153	16.477	-3.341	1.00144.52		N
ATOM	1204	CA	LEU	154	-21.970	15.771	-3.735	1.00144.52		C
ATOM	1205	CB	LEU	154	-20.820	16.669	-4.230	1.00144.52		C
ATOM	1206	CG	LEU	154	-20.991	17.165	-5.685	1.00144.52		C
ATOM	1207	CD1	LEU	154	-20.956	15.989	-6.675	1.00144.52		C
ATOM	1208	CD2	LEU	154	-22.243	18.032	-5.872	1.00144.52		C
ATOM	1209	C	LEU	154	-21.478	14.929	-2.603	1.00144.52		C
ATOM	1210	O	LEU	154	-21.026	13.807	-2.820	1.00144.52		O
ATOM	1211	N	HIS	155	-21.522	15.441	-1.360	1.00130.55		N
ATOM	1212	CA	HIS	155	-21.034	14.644	-0.273	1.00130.55		C
ATOM	1213	ND1	HIS	155	-18.862	14.302	2.181	1.00130.55		N
ATOM	1214	CG	HIS	155	-20.219	14.485	2.069	1.00130.55		C
ATOM	1215	CB	HIS	155	-20.863	15.391	1.059	1.00130.55		C
ATOM	1216	NE2	HIS	155	-19.808	12.952	3.671	1.00130.55		N
ATOM	1217	CD2	HIS	155	-20.785	13.654	2.987	1.00130.55		C
ATOM	1218	CE1	HIS	155	-18.669	13.376	3.154	1.00130.55		C
ATOM	1219	C	HIS	155	-21.927	13.467	0.004	1.00130.55		C
ATOM	1220	O	HIS	155	-21.432	12.395	0.341	1.00130.55		O
ATOM	1221	N	SER	156	-23.264	13.650	-0.034	1.00	62.27	N
ATOM	1222	CA	SER	156	-24.192	12.588	0.271	1.00	62.27	C
ATOM	1223	CB	SER	156	-25.588	13.120	0.636	1.00	62.27	C
ATOM	1224	OG	SER	156	-26.160	13.780	-0.484	1.00	62.27	O
ATOM	1225	C	SER	156	-24.377	11.604	-0.850	1.00	62.27	C
ATOM	1226	O	SER	156	-24.195	10.400	-0.681	1.00	62.27	O
ATOM	1227	N	LEU	157	-24.761	12.123	-2.031	1.00109.43		N
ATOM	1228	CA	LEU	157	-25.175	11.373	-3.190	1.00109.43		C
ATOM	1229	CB	LEU	157	-25.710	12.352	-4.264	1.00109.43		C
ATOM	1230	CG	LEU	157	-26.501	11.765	-5.456	1.00109.43		C
ATOM	1231	CD1	LEU	157	-26.836	12.861	-6.477	1.00109.43		C
ATOM	1232	CD2	LEU	157	-25.812	10.567	-6.118	1.00109.43		C
ATOM	1233	C	LEU	157	-24.049	10.557	-3.775	1.00109.43		C
ATOM	1234	O	LEU	157	-24.247	9.396	-4.133	1.00109.43		O
ATOM	1235	N	LEU	158	-22.833	11.129	-3.885	1.00	52.70	N
ATOM	1236	CA	LEU	158	-21.780	10.447	-4.596	1.00	52.70	C
ATOM	1237	CB	LEU	158	-20.470	11.263	-4.697	1.00	52.70	C
ATOM	1238	CG	LEU	158	-20.556	12.552	-5.545	1.00	52.70	C
ATOM	1239	CD1	LEU	158	-19.202	13.278	-5.600	1.00	52.70	C
ATOM	1240	CD2	LEU	158	-21.107	12.272	-6.951	1.00	52.70	C
ATOM	1241	C	LEU	158	-21.427	9.140	-3.949	1.00	52.70	C
ATOM	1242	O	LEU	158	-21.379	8.109	-4.618	1.00	52.70	O
ATOM	1243	N	HIS	159	-21.200	9.135	-2.624	1.00	75.49	N
ATOM	1244	CA	HIS	159	-20.761	7.949	-1.942	1.00	75.49	C
ATOM	1245	ND1	HIS	159	-18.953	10.247	-0.662	1.00	75.49	N
ATOM	1246	CG	HIS	159	-19.192	8.977	-0.190	1.00	75.49	C
ATOM	1247	CB	HIS	159	-20.451	8.194	-0.453	1.00	75.49	C
ATOM	1248	NE2	HIS	159	-17.173	9.672	0.541	1.00	75.49	N
ATOM	1249	CD2	HIS	159	-18.094	8.640	0.545	1.00	75.49	C
ATOM	1250	CE1	HIS	159	-17.732	10.615	-0.196	1.00	75.49	C
ATOM	1251	C	HIS	159	-21.816	6.884	-2.006	1.00	75.49	C
ATOM	1252	O	HIS	159	-21.505	5.709	-2.201	1.00	75.49	O
ATOM	1253	N	THR	160	-23.092	7.260	-1.808	1.00112.46		N
ATOM	1254	CA	THR	160	-24.155	6.296	-1.809	1.00112.46		C
ATOM	1255	CB	THR	160	-25.480	6.883	-1.405	1.00112.46		C
ATOM	1256	OG1	THR	160	-26.481	5.880	-1.359	1.00112.46		O
ATOM	1257	CG2	THR	160	-25.865	8.002	-2.391	1.00112.46		C
ATOM	1258	C	THR	160	-24.311	5.682	-3.172	1.00112.46		C
ATOM	1259	O	THR	160	-24.413	4.462	-3.287	1.00112.46		O
ATOM	1260	N	LEU	161	-24.345	6.505	-4.242	1.00	60.62	N
ATOM	1261	CA	LEU	161	-24.501	5.965	-5.565	1.00	60.62	C
ATOM	1262	CB	LEU	161	-24.654	7.007	-6.690	1.00	60.62	C
ATOM	1263	CG	LEU	161	-26.052	7.637	-6.820	1.00	60.62	C
ATOM	1264	CD1	LEU	161	-26.155	8.444	-8.126	1.00	60.62	C
ATOM	1265	CD2	LEU	161	-27.159	6.575	-6.702	1.00	60.62	C
ATOM	1266	C	LEU	161	-23.302	5.149	-5.924	1.00	60.62	C
ATOM	1267	O	LEU	161	-23.420	4.092	-6.543	1.00	60.62	O
ATOM	1268	N	LEU	162	-22.113	5.642	-5.541	1.00	67.55	N
ATOM	1269	CA	LEU	162	-20.853	5.013	-5.815	1.00	67.55	C
ATOM	1270	CB	LEU	162	-19.624	5.887	-5.503	1.00	67.55	C
ATOM	1271	CG	LEU	162	-19.500	7.120	-6.420	1.00	67.55	C
ATOM	1272	CD1	LEU	162	-18.139	7.811	-6.242	1.00	67.55	C

ATOM	1273	CD2	LEU	162	-19.806	6.762	-7.883	1.00	67.55	C
ATOM	1274	C	LEU	162	-20.747	3.729	-5.045	1.00	67.55	C
ATOM	1275	O	LEU	162	-19.972	2.850	-5.416	1.00	67.55	O
ATOM	1276	N	MET	163	-21.544	3.575	-3.970	1.00125.98		N
ATOM	1277	CA	MET	163	-21.447	2.433	-3.098	1.00125.98		C
ATOM	1278	CB	MET	163	-21.702	1.093	-3.809	1.00125.98		C
ATOM	1279	CG	MET	163	-23.137	0.865	-4.295	1.00125.98		C
ATOM	1280	SD	MET	163	-23.357	-0.731	-5.143	1.00125.98		S
ATOM	1281	CE	MET	163	-25.114	-0.522	-5.556	1.00125.98		C
ATOM	1282	C	MET	163	-20.073	2.374	-2.508	1.00125.98		C
ATOM	1283	O	MET	163	-19.526	1.291	-2.280	1.00125.98		O
ATOM	1284	N	ASN	164	-19.478	3.550	-2.260	1.00	43.21	N
ATOM	1285	CA	ASN	164	-18.210	3.646	-1.592	1.00	43.21	C
ATOM	1286	CB	ASN	164	-17.660	5.083	-1.543	1.00	43.21	C
ATOM	1287	CG	ASN	164	-17.272	5.521	-2.948	1.00	43.21	C
ATOM	1288	OD1	ASN	164	-17.114	4.697	-3.847	1.00	43.21	O
ATOM	1289	ND2	ASN	164	-17.100	6.857	-3.142	1.00	43.21	N
ATOM	1290	C	ASN	164	-18.401	3.225	-0.163	1.00	43.21	C
ATOM	1291	O	ASN	164	-17.528	2.598	0.435	1.00	43.21	O
ATOM	1292	N	SER	165	-19.572	3.573	0.408	1.00	57.23	N
ATOM	1293	CA	SER	165	-19.907	3.397	1.798	1.00	57.23	C
ATOM	1294	CB	SER	165	-21.273	4.010	2.138	1.00	57.23	C
ATOM	1295	OG	SER	165	-22.292	3.345	1.402	1.00	57.23	O
ATOM	1296	C	SER	165	-19.971	1.955	2.214	1.00	57.23	C
ATOM	1297	O	SER	165	-19.668	1.625	3.361	1.00	57.23	O
ATOM	1298	N	LEU	166	-20.338	1.052	1.289	1.00	69.43	N
ATOM	1299	CA	LEU	166	-20.619	-0.316	1.638	1.00	69.43	C
ATOM	1300	CB	LEU	166	-21.124	-1.134	0.441	1.00	69.43	C
ATOM	1301	CG	LEU	166	-22.468	-0.598	-0.077	1.00	69.43	C
ATOM	1302	CD1	LEU	166	-22.976	-1.419	-1.269	1.00	69.43	C
ATOM	1303	CD2	LEU	166	-23.493	-0.490	1.066	1.00	69.43	C
ATOM	1304	C	LEU	166	-19.438	-1.027	2.217	1.00	69.43	C
ATOM	1305	O	LEU	166	-18.288	-0.802	1.842	1.00	69.43	O
ATOM	1306	N	SER	167	-19.737	-1.901	3.200	1.00169.25		N
ATOM	1307	CA	SER	167	-18.770	-2.721	3.867	1.00169.25		C
ATOM	1308	CB	SER	167	-19.191	-3.104	5.295	1.00169.25		C
ATOM	1309	OG	SER	167	-18.232	-3.976	5.878	1.00169.25		O
ATOM	1310	C	SER	167	-18.658	-3.996	3.103	1.00169.25		C
ATOM	1311	O	SER	167	-19.479	-4.290	2.234	1.00169.25		O
ATOM	1312	N	PHE	168	-17.617	-4.794	3.401	1.00263.12		N
ATOM	1313	CA	PHE	168	-17.531	-6.059	2.737	1.00263.12		C
ATOM	1314	CB	PHE	168	-16.091	-6.527	2.459	1.00263.12		C
ATOM	1315	CG	PHE	168	-16.179	-7.733	1.591	1.00263.12		C
ATOM	1316	CD1	PHE	168	-16.513	-7.592	0.265	1.00263.12		C
ATOM	1317	CD2	PHE	168	-15.915	-8.994	2.082	1.00263.12		C
ATOM	1318	CE1	PHE	168	-16.599	-8.685	-0.562	1.00263.12		C
ATOM	1319	CE2	PHE	168	-15.999	-10.092	1.259	1.00263.12		C
ATOM	1320	CZ	PHE	168	-16.341	-9.939	-0.064	1.00263.12		C
ATOM	1321	C	PHE	168	-18.149	-7.033	3.683	1.00263.12		C
ATOM	1322	O	PHE	168	-17.635	-7.265	4.775	1.00263.12		O
ATOM	1323	N	CYS	169	-19.295	-7.617	3.291	1.00131.27		N
ATOM	1324	CA	CYS	169	-19.959	-8.530	4.169	1.00131.27		C
ATOM	1325	CB	CYS	169	-20.635	-7.821	5.348	1.00131.27		C
ATOM	1326	SG	CYS	169	-21.833	-6.589	4.751	1.00131.27		S
ATOM	1327	C	CYS	169	-21.062	-9.144	3.383	1.00131.27		C
ATOM	1328	O	CYS	169	-21.253	-8.820	2.213	1.00131.27		O
ATOM	1329	N	ALA	170	-21.802	-10.076	4.011	1.00207.64		N
ATOM	1330	CA	ALA	170	-22.951	-10.609	3.350	1.00207.64		C
ATOM	1331	CB	ALA	170	-23.086	-12.135	3.482	1.00207.64		C
ATOM	1332	C	ALA	170	-24.108	-9.991	4.057	1.00207.64		C
ATOM	1333	O	ALA	170	-24.271	-10.168	5.264	1.00207.64		O
ATOM	1334	N	ASN	171	-24.941	-9.230	3.322	1.00267.42		N
ATOM	1335	CA	ASN	171	-26.053	-8.592	3.952	1.00267.42		C
ATOM	1336	CB	ASN	171	-25.794	-7.128	4.360	1.00267.42		C
ATOM	1337	CG	ASN	171	-25.600	-6.268	3.116	1.00267.42		C
ATOM	1338	OD1	ASN	171	-24.933	-6.664	2.162	1.00267.42		O
ATOM	1339	ND2	ASN	171	-26.205	-5.050	3.130	1.00267.42		N
ATOM	1340	C	ASN	171	-27.173	-8.599	2.975	1.00267.42		C
ATOM	1341	O	ASN	171	-27.025	-9.053	1.841	1.00267.42		O
ATOM	1342	N	HIS	172	-28.342	-8.092	3.393	1.00163.46		N
ATOM	1343	CA	HIS	172	-29.442	-8.143	2.488	1.00163.46		C
ATOM	1344	ND1	HIS	172	-30.375	-8.891	5.557	1.00163.46		N
ATOM	1345	CG	HIS	172	-30.887	-9.094	4.297	1.00163.46		C
ATOM	1346	CB	HIS	172	-30.795	-8.076	3.203	1.00163.46		C
ATOM	1347	NE2	HIS	172	-31.244	-10.936	5.547	1.00163.46		N
ATOM	1348	CD2	HIS	172	-31.417	-10.349	4.306	1.00163.46		C
ATOM	1349	CE1	HIS	172	-30.613	-10.024	6.264	1.00163.46		C

ATOM	1350	C	HIS	172	-29.347	-6.972	1.573	1.00163.46	C
ATOM	1351	O	HIS	172	-30.356	-6.434	1.122	1.00163.46	O
ATOM	1352	N	GLU	173	-28.106	-6.567	1.264	1.00 92.33	N
ATOM	1353	CA	GLU	173	-27.889	-5.501	0.341	1.00 92.33	C
ATOM	1354	CB	GLU	173	-26.399	-5.181	0.196	1.00 92.33	C
ATOM	1355	CG	GLU	173	-26.104	-3.932	-0.625	1.00 92.33	C
ATOM	1356	CD	GLU	173	-24.596	-3.788	-0.621	1.00 92.33	C
ATOM	1357	OE1	GLU	173	-24.046	-3.465	0.466	1.00 92.33	O
ATOM	1358	OE2	GLU	173	-23.971	-4.005	-1.693	1.00 92.33	O
ATOM	1359	C	GLU	173	-28.388	-6.012	-0.965	1.00 92.33	C
ATOM	1360	O	GLU	173	-29.073	-5.313	-1.709	1.00 92.33	O
ATOM	1361	N	ILE	174	-28.049	-7.281	-1.261	1.00120.27	N
ATOM	1362	CA	ILE	174	-28.476	-7.904	-2.471	1.00120.27	C
ATOM	1363	CB	ILE	174	-27.684	-9.138	-2.861	1.00120.27	C
ATOM	1364	CG2	ILE	174	-26.279	-8.663	-3.259	1.00120.27	C
ATOM	1365	CG1	ILE	174	-27.665	-10.233	-1.790	1.00120.27	C
ATOM	1366	CD1	ILE	174	-26.966	-11.509	-2.258	1.00120.27	C
ATOM	1367	C	ILE	174	-29.963	-8.105	-2.473	1.00120.27	C
ATOM	1368	O	ILE	174	-30.561	-7.980	-3.542	1.00120.27	O
ATOM	1369	N	PRO	175	-30.636	-8.424	-1.398	1.00 93.14	N
ATOM	1370	CA	PRO	175	-32.060	-8.536	-1.526	1.00 93.14	C
ATOM	1371	CD	PRO	175	-30.133	-9.291	-0.350	1.00 93.14	C
ATOM	1372	CB	PRO	175	-32.550	-9.408	-0.369	1.00 93.14	C
ATOM	1373	CG	PRO	175	-31.342	-9.501	0.575	1.00 93.14	C
ATOM	1374	C	PRO	175	-32.712	-7.196	-1.599	1.00 93.14	C
ATOM	1375	O	PRO	175	-32.301	-6.279	-0.891	1.00 93.14	O
ATOM	1376	N	HIS	176	-33.743	-7.080	-2.453	1.00 95.62	N
ATOM	1377	CA	HIS	176	-34.513	-5.883	-2.634	1.00 95.62	C
ATOM	1378	ND1	HIS	176	-36.168	-8.464	-4.000	1.00 95.62	N
ATOM	1379	CG	HIS	176	-36.451	-7.187	-3.577	1.00 95.62	C
ATOM	1380	CB	HIS	176	-35.530	-6.018	-3.777	1.00 95.62	C
ATOM	1381	NE2	HIS	176	-38.152	-8.556	-3.002	1.00 95.62	N
ATOM	1382	CD2	HIS	176	-37.668	-7.261	-2.968	1.00 95.62	C
ATOM	1383	CE1	HIS	176	-37.217	-9.243	-3.634	1.00 95.62	C
ATOM	1384	C	HIS	176	-35.307	-5.648	-1.390	1.00 95.62	C
ATOM	1385	O	HIS	176	-35.578	-4.512	-1.004	1.00 95.62	O
ATOM	1386	N	PHE	177	-35.697	-6.760	-0.750	1.00153.51	N
ATOM	1387	CA	PHE	177	-36.599	-6.846	0.358	1.00153.51	C
ATOM	1388	CB	PHE	177	-36.800	-8.335	0.701	1.00153.51	C
ATOM	1389	CG	PHE	177	-38.189	-8.590	1.183	1.00153.51	C
ATOM	1390	CD1	PHE	177	-39.229	-8.515	0.282	1.00153.51	C
ATOM	1391	CD2	PHE	177	-38.468	-8.953	2.480	1.00153.51	C
ATOM	1392	CE1	PHE	177	-40.526	-8.756	0.663	1.00153.51	C
ATOM	1393	CE2	PHE	177	-39.767	-9.198	2.866	1.00153.51	C
ATOM	1394	CZ	PHE	177	-40.797	-9.099	1.965	1.00153.51	C
ATOM	1395	C	PHE	177	-36.027	-6.128	1.549	1.00153.51	C
ATOM	1396	O	PHE	177	-36.758	-5.450	2.270	1.00153.51	O
ATOM	1397	N	PHE	178	-34.705	-6.246	1.804	1.00159.95	N
ATOM	1398	CA	PHE	178	-34.183	-5.635	2.998	1.00159.95	C
ATOM	1399	CB	PHE	178	-33.250	-6.561	3.788	1.00159.95	C
ATOM	1400	CG	PHE	178	-34.053	-7.773	4.119	1.00159.95	C
ATOM	1401	CD1	PHE	178	-34.949	-7.761	5.162	1.00159.95	C
ATOM	1402	CD2	PHE	178	-33.906	-8.924	3.380	1.00159.95	C
ATOM	1403	CE1	PHE	178	-35.688	-8.882	5.456	1.00159.95	C
ATOM	1404	CE2	PHE	178	-34.642	-10.049	3.669	1.00159.95	C
ATOM	1405	CZ	PHE	178	-35.536	-10.027	4.711	1.00159.95	C
ATOM	1406	C	PHE	178	-33.425	-4.390	2.651	1.00159.95	C
ATOM	1407	O	PHE	178	-32.850	-4.272	1.569	1.00159.95	O
ATOM	1408	N	CYS	179	-33.443	-3.402	3.575	1.00 78.21	N
ATOM	1409	CA	CYS	179	-32.780	-2.146	3.356	1.00 78.21	C
ATOM	1410	CB	CYS	179	-33.783	-1.030	2.985	1.00 78.21	C
ATOM	1411	SG	CYS	179	-33.035	0.605	2.717	1.00 78.21	S
ATOM	1412	C	CYS	179	-32.095	-1.755	4.629	1.00 78.21	C
ATOM	1413	O	CYS	179	-32.601	-0.922	5.382	1.00 78.21	O
ATOM	1414	N	ASP	180	-30.911	-2.345	4.901	1.00 57.03	N
ATOM	1415	CA	ASP	180	-30.162	-2.009	6.081	1.00 57.03	C
ATOM	1416	CB	ASP	180	-29.721	-3.231	6.911	1.00 57.03	C
ATOM	1417	CG	ASP	180	-30.948	-3.852	7.568	1.00 57.03	C
ATOM	1418	OD1	ASP	180	-32.071	-3.330	7.336	1.00 57.03	O
ATOM	1419	OD2	ASP	180	-30.780	-4.852	8.317	1.00 57.03	O
ATOM	1420	C	ASP	180	-28.922	-1.316	5.613	1.00 57.03	C
ATOM	1421	O	ASP	180	-28.270	-1.763	4.670	1.00 57.03	O
ATOM	1422	N	ILE	181	-28.551	-0.194	6.264	1.00168.31	N
ATOM	1423	CA	ILE	181	-27.394	0.514	5.801	1.00168.31	C
ATOM	1424	CB	ILE	181	-27.594	2.007	5.740	1.00168.31	C
ATOM	1425	CG2	ILE	181	-28.717	2.247	4.721	1.00168.31	C
ATOM	1426	CG1	ILE	181	-27.906	2.622	7.114	1.00168.31	C

ATOM	1427	CD1	ILE	181	-29.227	2.136	7.712	1.00168.31	C
ATOM	1428	C	ILE	181	-26.239	0.187	6.686	1.00168.31	C
ATOM	1429	O	ILE	181	-26.135	0.659	7.816	1.00168.31	O
ATOM	1430	N	ASN	182	-25.314	-0.641	6.172	1.00 85.90	N
ATOM	1431	CA	ASN	182	-24.226	-1.034	7.007	1.00 85.90	C
ATOM	1432	CB	ASN	182	-24.098	-2.560	7.134	1.00 85.90	C
ATOM	1433	CG	ASN	182	-25.289	-3.027	7.956	1.00 85.90	C
ATOM	1434	OD1	ASN	182	-26.298	-3.478	7.417	1.00 85.90	O
ATOM	1435	ND2	ASN	182	-25.173	-2.890	9.304	1.00 85.90	N
ATOM	1436	C	ASN	182	-22.960	-0.517	6.420	1.00 85.90	C
ATOM	1437	O	ASN	182	-22.571	-0.845	5.304	1.00 85.90	O
ATOM	1438	N	PRO	183	-22.352	0.360	7.159	1.00269.56	N
ATOM	1439	CA	PRO	183	-21.043	0.813	6.811	1.00269.56	C
ATOM	1440	CD	PRO	183	-23.081	1.305	7.985	1.00269.56	C
ATOM	1441	CB	PRO	183	-20.760	1.970	7.763	1.00269.56	C
ATOM	1442	CG	PRO	183	-22.154	2.520	8.118	1.00269.56	C
ATOM	1443	C	PRO	183	-20.204	-0.385	7.076	1.00269.56	C
ATOM	1444	O	PRO	183	-19.172	-0.580	6.436	1.00269.56	O
ATOM	1445	N	LEU	184	-20.654	-1.174	8.069	1.00300.24	N
ATOM	1446	CA	LEU	184	-20.037	-2.387	8.498	1.00300.24	C
ATOM	1447	CB	LEU	184	-19.048	-2.160	9.649	1.00300.24	C
ATOM	1448	CG	LEU	184	-18.512	-3.453	10.282	1.00300.24	C
ATOM	1449	CD1	LEU	184	-17.734	-4.297	9.264	1.00300.24	C
ATOM	1450	CD2	LEU	184	-17.709	-3.146	11.555	1.00300.24	C
ATOM	1451	C	LEU	184	-21.140	-3.232	9.036	1.00300.24	C
ATOM	1452	O	LEU	184	-21.929	-2.778	9.863	1.00300.24	O
ATOM	1453	N	LEU	185	-21.244	-4.488	8.570	1.00280.75	N
ATOM	1454	CA	LEU	185	-22.269	-5.320	9.119	1.00280.75	C
ATOM	1455	CB	LEU	185	-22.712	-6.447	8.164	1.00280.75	C
ATOM	1456	CG	LEU	185	-24.040	-7.139	8.534	1.00280.75	C
ATOM	1457	CD1	LEU	185	-23.949	-7.948	9.833	1.00280.75	C
ATOM	1458	CD2	LEU	185	-25.196	-6.121	8.524	1.00280.75	C
ATOM	1459	C	LEU	185	-21.641	-5.904	10.345	1.00280.75	C
ATOM	1460	O	LEU	185	-20.432	-6.127	10.378	1.00280.75	O
ATOM	1461	N	SER	186	-22.444	-6.151	11.396	1.00 98.68	N
ATOM	1462	CA	SER	186	-21.911	-6.626	12.641	1.00 98.68	C
ATOM	1463	CB	SER	186	-22.990	-6.800	13.727	1.00 98.68	C
ATOM	1464	OG	SER	186	-22.398	-7.251	14.940	1.00 98.68	O
ATOM	1465	C	SER	186	-21.260	-7.954	12.414	1.00 98.68	C
ATOM	1466	O	SER	186	-20.240	-8.262	13.028	1.00 98.68	O
ATOM	1467	N	LEU	187	-21.817	-8.769	11.500	1.00242.97	N
ATOM	1468	CA	LEU	187	-21.257	-10.068	11.254	1.00242.97	C
ATOM	1469	CB	LEU	187	-22.132	-10.922	10.321	1.00242.97	C
ATOM	1470	CG	LEU	187	-21.527	-12.300	10.001	1.00242.97	C
ATOM	1471	CD1	LEU	187	-21.362	-13.142	11.275	1.00242.97	C
ATOM	1472	CD2	LEU	187	-22.323	-13.025	8.901	1.00242.97	C
ATOM	1473	C	LEU	187	-19.936	-9.887	10.579	1.00242.97	C
ATOM	1474	O	LEU	187	-19.858	-9.750	9.359	1.00242.97	O
ATOM	1475	N	SER	188	-18.848	-9.896	11.375	1.00199.46	N
ATOM	1476	CA	SER	188	-17.532	-9.774	10.826	1.00199.46	C
ATOM	1477	CB	SER	188	-17.055	-8.325	10.641	1.00199.46	C
ATOM	1478	OG	SER	188	-17.803	-7.698	9.606	1.00199.46	O
ATOM	1479	C	SER	188	-16.599	-10.457	11.772	1.00199.46	C
ATOM	1480	O	SER	188	-16.955	-10.757	12.911	1.00199.46	O
ATOM	1481	N	CYS	189	-15.368	-10.721	11.295	1.00 72.36	N
ATOM	1482	CA	CYS	189	-14.368	-11.428	12.039	1.00 72.36	C
ATOM	1483	CB	CYS	189	-13.397	-12.215	11.140	1.00 72.36	C
ATOM	1484	SG	CYS	189	-14.222	-13.392	10.025	1.00 72.36	S
ATOM	1485	C	CYS	189	-13.515	-10.412	12.721	1.00 72.36	C
ATOM	1486	O	CYS	189	-13.784	-9.214	12.666	1.00 72.36	O
ATOM	1487	N	THR	190	-12.464	-10.886	13.416	1.00235.22	N
ATOM	1488	CA	THR	190	-11.535	-9.962	13.979	1.00235.22	C
ATOM	1489	CB	THR	190	-10.618	-10.555	15.010	1.00235.22	C
ATOM	1490	OG1	THR	190	-9.860	-9.534	15.639	1.00235.22	O
ATOM	1491	CG2	THR	190	-9.688	-11.570	14.326	1.00235.22	C
ATOM	1492	C	THR	190	-10.719	-9.512	12.817	1.00235.22	C
ATOM	1493	O	THR	190	-10.791	-10.116	11.746	1.00235.22	O
ATOM	1494	N	ASP	191	-9.904	-8.454	12.997	1.00214.14	N
ATOM	1495	CA	ASP	191	-9.235	-7.904	11.855	1.00214.14	C
ATOM	1496	CB	ASP	191	-8.295	-8.918	11.172	1.00214.14	C
ATOM	1497	CG	ASP	191	-7.047	-9.100	12.022	1.00214.14	C
ATOM	1498	OD1	ASP	191	-6.319	-8.092	12.207	1.00214.14	O
ATOM	1499	OD2	ASP	191	-6.805	-10.244	12.502	1.00214.14	O
ATOM	1500	C	ASP	191	-10.324	-7.564	10.881	1.00214.14	C
ATOM	1501	O	ASP	191	-10.191	-7.790	9.681	1.00214.14	O
ATOM	1502	N	PRO	192	-11.406	-7.013	11.369	1.00110.04	N
ATOM	1503	CA	PRO	192	-12.558	-6.817	10.537	1.00110.04	C

ATOM	1504	CD	PRO	192	-11.375	-6.034	12.452	1.00110.04	C
ATOM	1505	CB	PRO	192	-13.563	-6.079	11.412	1.00110.04	C
ATOM	1506	CG	PRO	192	-12.657	-5.199	12.292	1.00110.04	C
ATOM	1507	C	PRO	192	-12.246	-5.992	9.333	1.00110.04	C
ATOM	1508	O	PRO	192	-11.409	-5.094	9.414	1.00110.04	O
ATOM	1509	N	PHE	193	-12.907	-6.305	8.201	1.00198.18	N
ATOM	1510	CA	PHE	193	-12.802	-5.503	7.021	1.00198.18	C
ATOM	1511	CB	PHE	193	-12.506	-6.284	5.730	1.00198.18	C
ATOM	1512	CG	PHE	193	-11.029	-6.389	5.616	1.00198.18	C
ATOM	1513	CD1	PHE	193	-10.301	-7.173	6.483	1.00198.18	C
ATOM	1514	CD2	PHE	193	-10.375	-5.697	4.626	1.00198.18	C
ATOM	1515	CE1	PHE	193	-8.935	-7.253	6.361	1.00198.18	C
ATOM	1516	CE2	PHE	193	-9.008	-5.775	4.499	1.00198.18	C
ATOM	1517	CZ	PHE	193	-8.288	-6.555	5.370	1.00198.18	C
ATOM	1518	C	PHE	193	-14.111	-4.814	6.844	1.00198.18	C
ATOM	1519	O	PHE	193	-15.163	-5.449	6.809	1.00198.18	O
ATOM	1520	N	THR	194	-14.059	-3.475	6.769	1.00281.28	N
ATOM	1521	CA	THR	194	-15.230	-2.675	6.581	1.00281.28	C
ATOM	1522	CB	THR	194	-15.882	-2.275	7.868	1.00281.28	C
ATOM	1523	OG1	THR	194	-17.111	-1.617	7.620	1.00281.28	O
ATOM	1524	CG2	THR	194	-14.914	-1.337	8.614	1.00281.28	C
ATOM	1525	C	THR	194	-14.738	-1.409	5.983	1.00281.28	C
ATOM	1526	O	THR	194	-13.533	-1.232	5.815	1.00281.28	O
ATOM	1527	N	ASN	195	-15.653	-0.494	5.613	1.00181.35	N
ATOM	1528	CA	ASN	195	-15.106	0.751	5.192	1.00181.35	C
ATOM	1529	CB	ASN	195	-15.774	1.361	3.953	1.00181.35	C
ATOM	1530	CG	ASN	195	-15.115	0.691	2.756	1.00181.35	C
ATOM	1531	OD1	ASN	195	-14.502	1.359	1.925	1.00181.35	O
ATOM	1532	ND2	ASN	195	-15.219	-0.663	2.677	1.00181.35	N
ATOM	1533	C	ASN	195	-15.216	1.681	6.349	1.00181.35	C
ATOM	1534	O	ASN	195	-16.200	2.398	6.519	1.00181.35	O
ATOM	1535	N	GLU	196	-14.172	1.645	7.194	1.00 87.83	N
ATOM	1536	CA	GLU	196	-14.034	2.484	8.344	1.00 87.83	C
ATOM	1537	CB	GLU	196	-12.786	2.101	9.175	1.00 87.83	C
ATOM	1538	CG	GLU	196	-12.566	2.898	10.468	1.00 87.83	C
ATOM	1539	CD	GLU	196	-11.315	2.350	11.159	1.00 87.83	C
ATOM	1540	OE1	GLU	196	-10.948	1.177	10.876	1.00 87.83	O
ATOM	1541	OE2	GLU	196	-10.712	3.096	11.975	1.00 87.83	O
ATOM	1542	C	GLU	196	-13.842	3.861	7.804	1.00 87.83	C
ATOM	1543	O	GLU	196	-14.274	4.854	8.386	1.00 87.83	O
ATOM	1544	N	LEU	197	-13.179	3.935	6.637	1.00 48.68	N
ATOM	1545	CA	LEU	197	-12.856	5.196	6.047	1.00 48.68	C
ATOM	1546	CB	LEU	197	-12.097	5.048	4.713	1.00 48.68	C
ATOM	1547	CG	LEU	197	-10.734	4.340	4.842	1.00 48.68	C
ATOM	1548	CD1	LEU	197	-10.013	4.247	3.486	1.00 48.68	C
ATOM	1549	CD2	LEU	197	-9.867	4.992	5.929	1.00 48.68	C
ATOM	1550	C	LEU	197	-14.116	5.942	5.753	1.00 48.68	C
ATOM	1551	O	LEU	197	-14.241	7.116	6.120	1.00 48.68	O
ATOM	1552	N	VAL	198	-15.103	5.297	5.114	1.00 97.67	N
ATOM	1553	CA	VAL	198	-16.281	6.029	4.758	1.00 97.67	C
ATOM	1554	CB	VAL	198	-17.245	5.241	3.915	1.00 97.67	C
ATOM	1555	CG1	VAL	198	-16.553	4.877	2.592	1.00 97.67	C
ATOM	1556	CG2	VAL	198	-17.729	4.021	4.712	1.00 97.67	C
ATOM	1557	C	VAL	198	-16.991	6.467	5.998	1.00 97.67	C
ATOM	1558	O	VAL	198	-17.453	7.604	6.089	1.00 97.67	O
ATOM	1559	N	ILE	199	-17.067	5.586	7.008	1.00139.60	N
ATOM	1560	CA	ILE	199	-17.843	5.899	8.171	1.00139.60	C
ATOM	1561	CB	ILE	199	-17.863	4.763	9.161	1.00139.60	C
ATOM	1562	CG2	ILE	199	-18.239	3.528	8.337	1.00139.60	C
ATOM	1563	CG1	ILE	199	-16.532	4.543	9.904	1.00139.60	C
ATOM	1564	CD1	ILE	199	-16.355	5.415	11.150	1.00139.60	C
ATOM	1565	C	ILE	199	-17.251	7.108	8.818	1.00139.60	C
ATOM	1566	O	ILE	199	-17.969	8.028	9.207	1.00139.60	O
ATOM	1567	N	PHE	200	-15.917	7.124	8.957	1.00 93.49	N
ATOM	1568	CA	PHE	200	-15.254	8.215	9.591	1.00 93.49	C
ATOM	1569	CB	PHE	200	-13.770	7.923	9.851	1.00 93.49	C
ATOM	1570	CG	PHE	200	-13.209	9.132	10.511	1.00 93.49	C
ATOM	1571	CD1	PHE	200	-13.454	9.357	11.845	1.00 93.49	C
ATOM	1572	CD2	PHE	200	-12.441	10.025	9.808	1.00 93.49	C
ATOM	1573	CE1	PHE	200	-12.939	10.468	12.469	1.00 93.49	C
ATOM	1574	CE2	PHE	200	-11.918	11.139	10.429	1.00 93.49	C
ATOM	1575	CZ	PHE	200	-12.170	11.360	11.760	1.00 93.49	C
ATOM	1576	C	PHE	200	-15.324	9.429	8.728	1.00 93.49	C
ATOM	1577	O	PHE	200	-15.697	10.506	9.183	1.00 93.49	O
ATOM	1578	N	ILE	201	-14.989	9.262	7.431	1.00 92.57	N
ATOM	1579	CA	ILE	201	-14.874	10.379	6.544	1.00 92.57	C
ATOM	1580	CB	ILE	201	-14.374	9.991	5.177	1.00 92.57	C

ATOM	1581	CG2	ILE	201	-12.960	9.415	5.346	1.00	92.57	C
ATOM	1582	CG1	ILE	201	-15.349	9.028	4.476	1.00	92.57	C
ATOM	1583	CD1	ILE	201	-15.108	8.897	2.972	1.00	92.57	C
ATOM	1584	C	ILE	201	-16.191	11.057	6.365	1.00	92.57	C
ATOM	1585	O	ILE	201	-16.280	12.281	6.460	1.00	92.57	O
ATOM	1586	N	THR	202	-17.258	10.282	6.119	1.00104.18		N
ATOM	1587	CA	THR	202	-18.521	10.898	5.841	1.00104.18		C
ATOM	1588	CB	THR	202	-19.593	9.913	5.461	1.00104.18		C
ATOM	1589	OG1	THR	202	-20.801	10.600	5.169	1.00104.18		O
ATOM	1590	CG2	THR	202	-19.809	8.919	6.613	1.00104.18		C
ATOM	1591	C	THR	202	-18.982	11.649	7.039	1.00104.18		C
ATOM	1592	O	THR	202	-19.441	12.783	6.928	1.00104.18		O
ATOM	1593	N	GLY	203	-18.855	11.033	8.226	1.00	30.91	N
ATOM	1594	CA	GLY	203	-19.330	11.634	9.436	1.00	30.91	C
ATOM	1595	C	GLY	203	-18.567	12.884	9.722	1.00	30.91	C
ATOM	1596	O	GLY	203	-19.142	13.869	10.183	1.00	30.91	O
ATOM	1597	N	GLY	204	-17.239	12.871	9.509	1.00	30.79	N
ATOM	1598	CA	GLY	204	-16.494	14.050	9.833	1.00	30.79	C
ATOM	1599	C	GLY	204	-16.891	15.180	8.936	1.00	30.79	C
ATOM	1600	O	GLY	204	-17.194	16.274	9.407	1.00	30.79	O
ATOM	1601	N	LEU	205	-16.896	14.941	7.609	1.00102.04		N
ATOM	1602	CA	LEU	205	-17.185	16.004	6.695	1.00102.04		C
ATOM	1603	CB	LEU	205	-16.903	15.640	5.219	1.00102.04		C
ATOM	1604	CG	LEU	205	-17.199	16.742	4.166	1.00102.04		C
ATOM	1605	CD1	LEU	205	-16.542	16.392	2.825	1.00102.04		C
ATOM	1606	CD2	LEU	205	-18.709	16.969	3.942	1.00102.04		C
ATOM	1607	C	LEU	205	-18.606	16.431	6.813	1.00102.04		C
ATOM	1608	O	LEU	205	-18.887	17.626	6.885	1.00102.04		O
ATOM	1609	N	THR	206	-19.555	15.480	6.803	1.00142.11		N
ATOM	1610	CA	THR	206	-20.906	15.947	6.802	1.00142.11		C
ATOM	1611	CB	THR	206	-21.932	14.866	6.534	1.00142.11		C
ATOM	1612	OG1	THR	206	-23.230	15.435	6.466	1.00142.11		O
ATOM	1613	CG2	THR	206	-21.892	13.783	7.627	1.00142.11		C
ATOM	1614	C	THR	206	-21.251	16.647	8.083	1.00142.11		C
ATOM	1615	O	THR	206	-21.728	17.780	8.041	1.00142.11		O
ATOM	1616	N	GLY	207	-21.117	15.953	9.238	1.00	75.66	N
ATOM	1617	CA	GLY	207	-21.441	16.501	10.529	1.00	75.66	C
ATOM	1618	C	GLY	207	-20.392	17.294	11.268	1.00	75.66	C
ATOM	1619	O	GLY	207	-20.621	18.436	11.656	1.00	75.66	O
ATOM	1620	N	LEU	208	-19.200	16.695	11.468	1.00	65.71	N
ATOM	1621	CA	LEU	208	-18.224	17.201	12.408	1.00	65.71	C
ATOM	1622	CB	LEU	208	-17.046	16.235	12.598	1.00	65.71	C
ATOM	1623	CG	LEU	208	-17.438	14.893	13.243	1.00	65.71	C
ATOM	1624	CD1	LEU	208	-16.210	13.983	13.388	1.00	65.71	C
ATOM	1625	CD2	LEU	208	-18.179	15.090	14.577	1.00	65.71	C
ATOM	1626	C	LEU	208	-17.639	18.526	12.046	1.00	65.71	C
ATOM	1627	O	LEU	208	-17.514	19.396	12.906	1.00	65.71	O
ATOM	1628	N	ILE	209	-17.250	18.722	10.774	1.00	89.72	N
ATOM	1629	CA	ILE	209	-16.570	19.941	10.438	1.00	89.72	C
ATOM	1630	CB	ILE	209	-16.096	19.978	9.006	1.00	89.72	C
ATOM	1631	CG2	ILE	209	-17.289	19.702	8.073	1.00	89.72	C
ATOM	1632	CG1	ILE	209	-15.353	21.298	8.723	1.00	89.72	C
ATOM	1633	CD1	ILE	209	-14.604	21.314	7.390	1.00	89.72	C
ATOM	1634	C	ILE	209	-17.475	21.110	10.657	1.00	89.72	C
ATOM	1635	O	ILE	209	-17.104	22.086	11.305	1.00	89.72	O
ATOM	1636	N	CYS	210	-18.706	21.000	10.142	1.00	77.25	N
ATOM	1637	CA	CYS	210	-19.703	22.023	10.152	1.00	77.25	C
ATOM	1638	CB	CYS	210	-20.924	21.520	9.377	1.00	77.25	C
ATOM	1639	SG	CYS	210	-22.047	22.835	8.877	1.00	77.25	S
ATOM	1640	C	CYS	210	-20.114	22.321	11.564	1.00	77.25	C
ATOM	1641	O	CYS	210	-20.342	23.475	11.924	1.00	77.25	O
ATOM	1642	N	VAL	211	-20.257	21.275	12.398	1.00	95.18	N
ATOM	1643	CA	VAL	211	-20.677	21.463	13.758	1.00	95.18	C
ATOM	1644	CB	VAL	211	-20.992	20.175	14.467	1.00	95.18	C
ATOM	1645	CG1	VAL	211	-22.176	19.510	13.745	1.00	95.18	C
ATOM	1646	CG2	VAL	211	-19.726	19.303	14.547	1.00	95.18	C
ATOM	1647	C	VAL	211	-19.632	22.183	14.557	1.00	95.18	C
ATOM	1648	O	VAL	211	-19.947	23.103	15.311	1.00	95.18	O
ATOM	1649	N	LEU	212	-18.353	21.795	14.409	1.00136.19		N
ATOM	1650	CA	LEU	212	-17.329	22.375	15.227	1.00136.19		C
ATOM	1651	CB	LEU	212	-15.946	21.750	14.967	1.00136.19		C
ATOM	1652	CG	LEU	212	-15.886	20.236	15.257	1.00136.19		C
ATOM	1653	CD1	LEU	212	-14.481	19.666	14.998	1.00136.19		C
ATOM	1654	CD2	LEU	212	-16.424	19.903	16.658	1.00136.19		C
ATOM	1655	C	LEU	212	-17.228	23.839	14.943	1.00136.19		C
ATOM	1656	O	LEU	212	-17.148	24.654	15.862	1.00136.19		O
ATOM	1657	N	CYS	213	-17.234	24.212	13.651	1.00	72.18	N

ATOM	1658	CA	CYS	213	-17.103	25.588	13.276	1.00	72.18	C
ATOM	1659	CB	CYS	213	-16.906	25.779	11.763	1.00	72.18	C
ATOM	1660	SG	CYS	213	-18.182	24.955	10.770	1.00	72.18	S
ATOM	1661	C	CYS	213	-18.302	26.363	13.727	1.00	72.18	C
ATOM	1662	O	CYS	213	-18.178	27.489	14.206	1.00	72.18	O
ATOM	1663	N	LEU	214	-19.498	25.762	13.614	1.00	45.57	N
ATOM	1664	CA	LEU	214	-20.715	26.442	13.944	1.00	45.57	C
ATOM	1665	CB	LEU	214	-21.932	25.515	13.785	1.00	45.57	C
ATOM	1666	CG	LEU	214	-23.276	26.183	14.115	1.00	45.57	C
ATOM	1667	CD1	LEU	214	-23.623	27.241	13.055	1.00	45.57	C
ATOM	1668	CD2	LEU	214	-24.388	25.143	14.327	1.00	45.57	C
ATOM	1669	C	LEU	214	-20.658	26.846	15.384	1.00	45.57	C
ATOM	1670	O	LEU	214	-20.921	27.999	15.724	1.00	45.57	O
ATOM	1671	N	ILE	215	-20.277	25.906	16.266	1.00	75.88	N
ATOM	1672	CA	ILE	215	-20.266	26.175	17.672	1.00	75.88	C
ATOM	1673	CB	ILE	215	-19.970	24.952	18.500	1.00	75.88	C
ATOM	1674	CG2	ILE	215	-18.528	24.485	18.231	1.00	75.88	C
ATOM	1675	CG1	ILE	215	-20.282	25.223	19.979	1.00	75.88	C
ATOM	1676	CD1	ILE	215	-20.314	23.954	20.831	1.00	75.88	C
ATOM	1677	C	ILE	215	-19.253	27.233	17.983	1.00	75.88	C
ATOM	1678	O	ILE	215	-19.533	28.160	18.741	1.00	75.88	O
ATOM	1679	N	ILE	216	-18.047	27.129	17.394	1.00	76.94	N
ATOM	1680	CA	ILE	216	-17.003	28.058	17.707	1.00	76.94	C
ATOM	1681	CB	ILE	216	-15.677	27.673	17.103	1.00	76.94	C
ATOM	1682	CG2	ILE	216	-15.789	27.715	15.569	1.00	76.94	C
ATOM	1683	CG1	ILE	216	-14.552	28.546	17.685	1.00	76.94	C
ATOM	1684	CD1	ILE	216	-13.145	28.029	17.384	1.00	76.94	C
ATOM	1685	C	ILE	216	-17.376	29.432	17.241	1.00	76.94	C
ATOM	1686	O	ILE	216	-17.225	30.404	17.978	1.00	76.94	O
ATOM	1687	N	SER	217	-17.883	29.559	16.004	1.00	29.58	N
ATOM	1688	CA	SER	217	-18.199	30.859	15.489	1.00	29.58	C
ATOM	1689	CB	SER	217	-18.581	30.844	14.000	1.00	29.58	C
ATOM	1690	OG	SER	217	-17.473	30.414	13.222	1.00	29.58	O
ATOM	1691	C	SER	217	-19.362	31.436	16.234	1.00	29.58	C
ATOM	1692	O	SER	217	-19.411	32.633	16.502	1.00	29.58	O
ATOM	1693	N	TYR	218	-20.342	30.593	16.588	1.00	87.05	N
ATOM	1694	CA	TYR	218	-21.530	31.088	17.213	1.00	87.05	C
ATOM	1695	CB	TYR	218	-22.645	30.035	17.310	1.00	87.05	C
ATOM	1696	CG	TYR	218	-23.909	30.818	17.323	1.00	87.05	C
ATOM	1697	CD1	TYR	218	-24.385	31.307	16.127	1.00	87.05	C
ATOM	1698	CD2	TYR	218	-24.608	31.071	18.476	1.00	87.05	C
ATOM	1699	CE1	TYR	218	-25.544	32.039	16.061	1.00	87.05	C
ATOM	1700	CE2	TYR	218	-25.770	31.805	18.414	1.00	87.05	C
ATOM	1701	CZ	TYR	218	-26.234	32.293	17.216	1.00	87.05	C
ATOM	1702	OH	TYR	218	-27.425	33.045	17.170	1.00	87.05	O
ATOM	1703	C	TYR	218	-21.202	31.576	18.590	1.00	87.05	C
ATOM	1704	O	TYR	218	-21.844	32.498	19.088	1.00	87.05	O
ATOM	1705	N	THR	219	-20.236	30.936	19.278	1.00	96.45	N
ATOM	1706	CA	THR	219	-19.916	31.373	20.608	1.00	96.45	C
ATOM	1707	CB	THR	219	-18.910	30.511	21.329	1.00	96.45	C
ATOM	1708	OG1	THR	219	-18.855	30.873	22.703	1.00	96.45	O
ATOM	1709	CG2	THR	219	-17.527	30.683	20.686	1.00	96.45	C
ATOM	1710	C	THR	219	-19.380	32.774	20.542	1.00	96.45	C
ATOM	1711	O	THR	219	-19.709	33.598	21.393	1.00	96.45	O
ATOM	1712	N	ASN	220	-18.549	33.087	19.521	1.00106.07	N	
ATOM	1713	CA	ASN	220	-17.965	34.398	19.408	1.00106.07	C	
ATOM	1714	CB	ASN	220	-16.852	34.536	18.337	1.00106.07	C	
ATOM	1715	CG	ASN	220	-17.403	34.437	16.926	1.00106.07	C	
ATOM	1716	OD1	ASN	220	-18.281	35.201	16.529	1.00106.07	O	
ATOM	1717	ND2	ASN	220	-16.864	33.473	16.131	1.00106.07	N	
ATOM	1718	C	ASN	220	-19.048	35.401	19.152	1.00106.07	C	
ATOM	1719	O	ASN	220	-18.914	36.573	19.496	1.00106.07	O	
ATOM	1720	N	VAL	221	-20.140	34.966	18.496	1.00	39.72	N
ATOM	1721	CA	VAL	221	-21.264	35.818	18.233	1.00	39.72	C
ATOM	1722	CB	VAL	221	-22.353	35.091	17.498	1.00	39.72	C
ATOM	1723	CG1	VAL	221	-23.583	36.004	17.379	1.00	39.72	C
ATOM	1724	CG2	VAL	221	-21.786	34.613	16.151	1.00	39.72	C
ATOM	1725	C	VAL	221	-21.819	36.256	19.557	1.00	39.72	C
ATOM	1726	O	VAL	221	-22.167	37.421	19.740	1.00	39.72	O
ATOM	1727	N	PHE	222	-21.906	35.320	20.524	1.00	56.71	N
ATOM	1728	CA	PHE	222	-22.440	35.617	21.825	1.00	56.71	C
ATOM	1729	CB	PHE	222	-22.405	34.424	22.799	1.00	56.71	C
ATOM	1730	CG	PHE	222	-23.242	33.298	22.306	1.00	56.71	C
ATOM	1731	CD1	PHE	222	-24.616	33.368	22.333	1.00	56.71	C
ATOM	1732	CD2	PHE	222	-22.641	32.149	21.844	1.00	56.71	C
ATOM	1733	CE1	PHE	222	-25.380	32.314	21.889	1.00	56.71	C
ATOM	1734	CE2	PHE	222	-23.398	31.093	21.400	1.00	56.71	C

ATOM	1735	CZ	PHE	222	-24.771	31.176	21.420	1.00	56.71	C
ATOM	1736	C	PHE	222	-21.572	36.641	22.488	1.00	56.71	C
ATOM	1737	O	PHE	222	-22.061	37.619	23.050	1.00	56.71	O
ATOM	1738	N	SER	223	-20.244	36.446	22.450	1.00	26.16	N
ATOM	1739	CA	SER	223	-19.409	37.375	23.148	1.00	26.16	C
ATOM	1740	CB	SER	223	-17.912	37.019	23.087	1.00	26.16	C
ATOM	1741	OG	SER	223	-17.441	37.100	21.752	1.00	26.16	O
ATOM	1742	C	SER	223	-19.585	38.729	22.545	1.00	26.16	C
ATOM	1743	O	SER	223	-19.685	39.725	23.259	1.00	26.16	O
ATOM	1744	N	THR	224	-19.653	38.809	21.205	1.00101.50		N
ATOM	1745	CA	THR	224	-19.751	40.100	20.592	1.00101.50		C
ATOM	1746	CB	THR	224	-19.748	40.040	19.094	1.00101.50		C
ATOM	1747	OG1	THR	224	-20.913	39.377	18.624	1.00101.50		O
ATOM	1748	CG2	THR	224	-18.488	39.283	18.641	1.00101.50		C
ATOM	1749	C	THR	224	-21.034	40.744	21.013	1.00101.50		C
ATOM	1750	O	THR	224	-21.057	41.910	21.406	1.00101.50		O
ATOM	1751	N	ILE	225	-22.143	39.986	20.969	1.00	96.99	N
ATOM	1752	CA	ILE	225	-23.414	40.566	21.287	1.00	96.99	C
ATOM	1753	CB	ILE	225	-24.588	39.652	21.079	1.00	96.99	C
ATOM	1754	CG2	ILE	225	-24.454	38.443	22.011	1.00	96.99	C
ATOM	1755	CG1	ILE	225	-25.902	40.429	21.273	1.00	96.99	C
ATOM	1756	CD1	ILE	225	-27.141	39.619	20.895	1.00	96.99	C
ATOM	1757	C	ILE	225	-23.441	41.021	22.708	1.00	96.99	C
ATOM	1758	O	ILE	225	-23.936	42.109	22.992	1.00	96.99	O
ATOM	1759	N	LEU	226	-22.895	40.223	23.643	1.00129.11		N
ATOM	1760	CA	LEU	226	-23.000	40.606	25.022	1.00129.11		C
ATOM	1761	CB	LEU	226	-22.323	39.601	25.983	1.00129.11		C
ATOM	1762	CG	LEU	226	-22.398	39.951	27.490	1.00129.11		C
ATOM	1763	CD1	LEU	226	-21.465	41.107	27.891	1.00129.11		C
ATOM	1764	CD2	LEU	226	-23.854	40.189	27.926	1.00129.11		C
ATOM	1765	C	LEU	226	-22.332	41.923	25.207	1.00129.11		C
ATOM	1766	O	LEU	226	-22.878	42.824	25.843	1.00129.11		O
ATOM	1767	N	LYS	227	-21.135	42.089	24.624	1.00112.16		N
ATOM	1768	CA	LYS	227	-20.417	43.291	24.903	1.00112.16		C
ATOM	1769	CB	LYS	227	-18.994	43.289	24.307	1.00112.16		C
ATOM	1770	CG	LYS	227	-18.950	42.937	22.820	1.00112.16		C
ATOM	1771	CD	LYS	227	-17.601	43.190	22.144	1.00112.16		C
ATOM	1772	CE	LYS	227	-17.523	44.541	21.435	1.00112.16		C
ATOM	1773	NZ	LYS	227	-16.323	44.588	20.573	1.00112.16		N
ATOM	1774	C	LYS	227	-21.148	44.510	24.434	1.00112.16		C
ATOM	1775	O	LYS	227	-21.331	45.448	25.209	1.00112.16		O
ATOM	1776	N	ILE	228	-21.614	44.544	23.171	1.00	81.06	N
ATOM	1777	CA	ILE	228	-22.132	45.808	22.732	1.00	81.06	C
ATOM	1778	CB	ILE	228	-22.224	45.919	21.227	1.00	81.06	C
ATOM	1779	CG2	ILE	228	-22.954	47.229	20.884	1.00	81.06	C
ATOM	1780	CG1	ILE	228	-20.824	45.817	20.597	1.00	81.06	C
ATOM	1781	CD1	ILE	228	-20.838	45.626	19.080	1.00	81.06	C
ATOM	1782	C	ILE	228	-23.437	46.216	23.378	1.00	81.06	C
ATOM	1783	O	ILE	228	-23.473	47.306	23.959	1.00	81.06	O
ATOM	1784	N	PRO	229	-24.511	45.456	23.366	1.00135.78		N
ATOM	1785	CA	PRO	229	-25.715	46.035	23.930	1.00135.78		C
ATOM	1786	CD	PRO	229	-24.823	44.718	22.147	1.00135.78		C
ATOM	1787	CB	PRO	229	-26.881	45.554	23.070	1.00135.78		C
ATOM	1788	CG	PRO	229	-26.237	45.147	21.740	1.00135.78		C
ATOM	1789	C	PRO	229	-25.985	45.746	25.368	1.00135.78		C
ATOM	1790	O	PRO	229	-25.519	44.727	25.874	1.00135.78		O
ATOM	1791	N	SER	230	-26.734	46.637	26.049	1.00129.20		N
ATOM	1792	CA	SER	230	-27.186	46.331	27.373	1.00129.20		C
ATOM	1793	CB	SER	230	-27.763	47.548	28.114	1.00129.20		C
ATOM	1794	OG	SER	230	-26.739	48.503	28.350	1.00129.20		O
ATOM	1795	C	SER	230	-28.279	45.311	27.244	1.00129.20		C
ATOM	1796	O	SER	230	-28.196	44.216	27.798	1.00129.20		O
ATOM	1797	N	ALA	231	-29.337	45.654	26.476	1.00	40.28	N
ATOM	1798	CA	ALA	231	-30.448	44.764	26.281	1.00	40.28	C
ATOM	1799	CB	ALA	231	-31.666	45.109	27.156	1.00	40.28	C
ATOM	1800	C	ALA	231	-30.892	44.928	24.864	1.00	40.28	C
ATOM	1801	O	ALA	231	-30.846	46.028	24.318	1.00	40.28	O
ATOM	1802	N	GLN	232	-31.329	43.830	24.217	1.00	96.57	N
ATOM	1803	CA	GLN	232	-31.766	43.977	22.861	1.00	96.57	C
ATOM	1804	CB	GLN	232	-30.624	43.868	21.827	1.00	96.57	C
ATOM	1805	CG	GLN	232	-29.610	45.019	21.843	1.00	96.57	C
ATOM	1806	CD	GLN	232	-30.086	46.106	20.887	1.00	96.57	C
ATOM	1807	OE1	GLN	232	-29.375	47.071	20.609	1.00	96.57	O
ATOM	1808	NE2	GLN	232	-31.329	45.941	20.362	1.00	96.57	N
ATOM	1809	C	GLN	232	-32.707	42.867	22.536	1.00	96.57	C
ATOM	1810	O	GLN	232	-32.567	41.745	23.021	1.00	96.57	O
ATOM	1811	N	GLY	233	-33.719	43.179	21.707	1.00	24.78	N

ATOM	1812	CA	GLY	233	-34.605	42.180	21.194	1.00	24.78	C
ATOM	1813	C	GLY	233	-33.770	41.336	20.287	1.00	24.78	C
ATOM	1814	O	GLY	233	-33.969	40.129	20.161	1.00	24.78	O
ATOM	1815	N	LYS	234	-32.800	41.992	19.624	1.00	127.36	N
ATOM	1816	CA	LYS	234	-31.934	41.360	18.676	1.00	127.36	C
ATOM	1817	CB	LYS	234	-30.899	42.328	18.085	1.00	127.36	C
ATOM	1818	CG	LYS	234	-31.531	43.458	17.273	1.00	127.36	C
ATOM	1819	CD	LYS	234	-32.383	42.962	16.102	1.00	127.36	C
ATOM	1820	CE	LYS	234	-33.879	42.892	16.410	1.00	127.36	C
ATOM	1821	NZ	LYS	234	-34.513	44.197	16.117	1.00	127.36	N
ATOM	1822	C	LYS	234	-31.186	40.275	19.377	1.00	127.36	C
ATOM	1823	O	LYS	234	-30.892	39.239	18.784	1.00	127.36	O
ATOM	1824	N	ARG	235	-30.833	40.491	20.657	1.00	97.11	N
ATOM	1825	CA	ARG	235	-30.117	39.468	21.357	1.00	97.11	C
ATOM	1826	CB	ARG	235	-29.725	39.827	22.797	1.00	97.11	C
ATOM	1827	CG	ARG	235	-28.964	38.671	23.453	1.00	97.11	C
ATOM	1828	CD	ARG	235	-28.551	38.898	24.906	1.00	97.11	C
ATOM	1829	NE	ARG	235	-27.965	37.614	25.385	1.00	97.11	N
ATOM	1830	CZ	ARG	235	-27.135	37.591	26.467	1.00	97.11	C
ATOM	1831	NH1	ARG	235	-26.808	38.754	27.106	1.00	97.11	N
ATOM	1832	NH2	ARG	235	-26.642	36.403	26.923	1.00	97.11	N
ATOM	1833	C	ARG	235	-31.003	38.274	21.460	1.00	97.11	C
ATOM	1834	O	ARG	235	-30.549	37.140	21.321	1.00	97.11	O
ATOM	1835	N	LYS	236	-32.305	38.499	21.715	1.00	61.98	N
ATOM	1836	CA	LYS	236	-33.202	37.392	21.835	1.00	61.98	C
ATOM	1837	CB	LYS	236	-34.635	37.799	22.205	1.00	61.98	C
ATOM	1838	CG	LYS	236	-34.725	38.420	23.599	1.00	61.98	C
ATOM	1839	CD	LYS	236	-36.089	39.025	23.912	1.00	61.98	C
ATOM	1840	CE	LYS	236	-36.503	40.140	22.952	1.00	61.98	C
ATOM	1841	NZ	LYS	236	-37.782	40.729	23.404	1.00	61.98	N
ATOM	1842	C	LYS	236	-33.228	36.684	20.518	1.00	61.98	C
ATOM	1843	O	LYS	236	-33.313	35.459	20.467	1.00	61.98	O
ATOM	1844	N	ALA	237	-33.142	37.439	19.408	1.00	24.85	N
ATOM	1845	CA	ALA	237	-33.183	36.823	18.112	1.00	24.85	C
ATOM	1846	CB	ALA	237	-33.051	37.835	16.963	1.00	24.85	C
ATOM	1847	C	ALA	237	-32.025	35.882	18.001	1.00	24.85	C
ATOM	1848	O	ALA	237	-32.162	34.781	17.470	1.00	24.85	O
ATOM	1849	N	PHE	238	-30.848	36.295	18.508	1.00	98.22	N
ATOM	1850	CA	PHE	238	-29.671	35.478	18.422	1.00	98.22	C
ATOM	1851	CB	PHE	238	-28.378	36.168	18.881	1.00	98.22	C
ATOM	1852	CG	PHE	238	-28.091	37.205	17.856	1.00	98.22	C
ATOM	1853	CD1	PHE	238	-27.610	36.848	16.615	1.00	98.22	C
ATOM	1854	CD2	PHE	238	-28.298	38.534	18.138	1.00	98.22	C
ATOM	1855	CE1	PHE	238	-27.346	37.807	15.669	1.00	98.22	C
ATOM	1856	CE2	PHE	238	-28.035	39.496	17.193	1.00	98.22	C
ATOM	1857	CZ	PHE	238	-27.562	39.133	15.956	1.00	98.22	C
ATOM	1858	C	PHE	238	-29.854	34.243	19.237	1.00	98.22	C
ATOM	1859	O	PHE	238	-29.363	33.180	18.864	1.00	98.22	O
ATOM	1860	N	SER	239	-30.535	34.347	20.392	1.00	70.20	N
ATOM	1861	CA	SER	239	-30.712	33.180	21.207	1.00	70.20	C
ATOM	1862	CB	SER	239	-31.420	33.456	22.545	1.00	70.20	C
ATOM	1863	OG	SER	239	-32.793	33.744	22.328	1.00	70.20	O
ATOM	1864	C	SER	239	-31.543	32.182	20.456	1.00	70.20	C
ATOM	1865	O	SER	239	-31.310	30.978	20.559	1.00	70.20	O
ATOM	1866	N	THR	240	-32.528	32.659	19.667	1.00	31.01	N
ATOM	1867	CA	THR	240	-33.387	31.766	18.940	1.00	31.01	C
ATOM	1868	CB	THR	240	-34.426	32.469	18.111	1.00	31.01	C
ATOM	1869	OG1	THR	240	-35.274	33.256	18.937	1.00	31.01	O
ATOM	1870	CG2	THR	240	-35.251	31.411	17.358	1.00	31.01	C
ATOM	1871	C	THR	240	-32.545	30.969	17.997	1.00	31.01	C
ATOM	1872	O	THR	240	-32.701	29.753	17.894	1.00	31.01	O
ATOM	1873	N	CYS	241	-31.616	31.635	17.289	1.00	26.16	N
ATOM	1874	CA	CYS	241	-30.772	30.935	16.365	1.00	26.16	C
ATOM	1875	CB	CYS	241	-29.801	31.865	15.614	1.00	26.16	C
ATOM	1876	SG	CYS	241	-30.665	33.038	14.527	1.00	26.16	S
ATOM	1877	C	CYS	241	-29.952	29.959	17.145	1.00	26.16	C
ATOM	1878	O	CYS	241	-29.756	28.823	16.720	1.00	26.16	O
ATOM	1879	N	SER	242	-29.475	30.375	18.333	1.00	75.66	N
ATOM	1880	CA	SER	242	-28.650	29.530	19.147	1.00	75.66	C
ATOM	1881	CB	SER	242	-28.331	30.142	20.523	1.00	75.66	C
ATOM	1882	OG	SER	242	-27.673	31.392	20.392	1.00	75.66	O
ATOM	1883	C	SER	242	-29.436	28.298	19.457	1.00	75.66	C
ATOM	1884	O	SER	242	-28.886	27.200	19.519	1.00	75.66	O
ATOM	1885	N	SER	243	-30.753	28.472	19.676	1.00	74.85	N
ATOM	1886	CA	SER	243	-31.643	27.410	20.045	1.00	74.85	C
ATOM	1887	CB	SER	243	-33.077	27.918	20.275	1.00	74.85	C
ATOM	1888	OG	SER	243	-33.959	26.829	20.508	1.00	74.85	O

ATOM	1889	C	SER	243	-31.710	26.399	18.951	1.00	74.85	C
ATOM	1890	O	SER	243	-31.608	25.199	19.195	1.00	74.85	O
ATOM	1891	N	HIS	244	-31.874	26.863	17.701	1.00103.51		N
ATOM	1892	CA	HIS	244	-32.003	25.947	16.611	1.00103.51		C
ATOM	1893	ND1	HIS	244	-32.611	24.421	14.106	1.00103.51		N
ATOM	1894	CG	HIS	244	-32.281	25.756	14.081	1.00103.51		C
ATOM	1895	CB	HIS	244	-32.306	26.661	15.277	1.00103.51		C
ATOM	1896	NE2	HIS	244	-32.043	24.898	12.010	1.00103.51		N
ATOM	1897	CD2	HIS	244	-31.944	26.034	12.794	1.00103.51		C
ATOM	1898	CE1	HIS	244	-32.446	23.956	12.840	1.00103.51		C
ATOM	1899	C	HIS	244	-30.748	25.144	16.494	1.00103.51		C
ATOM	1900	O	HIS	244	-30.790	23.926	16.328	1.00103.51		O
ATOM	1901	N	LEU	245	-29.589	25.810	16.596	1.00	94.34	N
ATOM	1902	CA	LEU	245	-28.337	25.129	16.449	1.00	94.34	C
ATOM	1903	CB	LEU	245	-27.161	26.111	16.330	1.00	94.34	C
ATOM	1904	CG	LEU	245	-27.149	26.813	14.955	1.00	94.34	C
ATOM	1905	CD1	LEU	245	-28.473	27.539	14.665	1.00	94.34	C
ATOM	1906	CD2	LEU	245	-25.936	27.739	14.813	1.00	94.34	C
ATOM	1907	C	LEU	245	-28.102	24.156	17.565	1.00	94.34	C
ATOM	1908	O	LEU	245	-27.674	23.028	17.327	1.00	94.34	O
ATOM	1909	N	SER	246	-28.393	24.557	18.813	1.00	72.62	N
ATOM	1910	CA	SER	246	-28.141	23.719	19.949	1.00	72.62	C
ATOM	1911	CB	SER	246	-28.422	24.456	21.270	1.00	72.62	C
ATOM	1912	OG	SER	246	-27.560	25.581	21.387	1.00	72.62	O
ATOM	1913	C	SER	246	-29.012	22.499	19.888	1.00	72.62	C
ATOM	1914	O	SER	246	-28.554	21.386	20.138	1.00	72.62	O
ATOM	1915	N	VAL	247	-30.298	22.675	19.534	1.00	80.79	N
ATOM	1916	CA	VAL	247	-31.219	21.574	19.511	1.00	80.79	C
ATOM	1917	CB	VAL	247	-32.626	22.006	19.200	1.00	80.79	C
ATOM	1918	CG1	VAL	247	-32.687	22.523	17.755	1.00	80.79	C
ATOM	1919	CG2	VAL	247	-33.576	20.832	19.480	1.00	80.79	C
ATOM	1920	C	VAL	247	-30.772	20.574	18.483	1.00	80.79	C
ATOM	1921	O	VAL	247	-30.803	19.369	18.724	1.00	80.79	O
ATOM	1922	N	VAL	248	-30.323	21.046	17.306	1.00	32.78	N
ATOM	1923	CA	VAL	248	-29.905	20.150	16.268	1.00	32.78	C
ATOM	1924	CB	VAL	248	-29.458	20.851	15.019	1.00	32.78	C
ATOM	1925	CG1	VAL	248	-28.895	19.792	14.055	1.00	32.78	C
ATOM	1926	CG2	VAL	248	-30.640	21.652	14.445	1.00	32.78	C
ATOM	1927	C	VAL	248	-28.737	19.364	16.771	1.00	32.78	C
ATOM	1928	O	VAL	248	-28.620	18.170	16.505	1.00	32.78	O
ATOM	1929	N	SER	249	-27.841	20.030	17.521	1.00	37.43	N
ATOM	1930	CA	SER	249	-26.646	19.419	18.023	1.00	37.43	C
ATOM	1931	CB	SER	249	-25.819	20.394	18.883	1.00	37.43	C
ATOM	1932	OG	SER	249	-25.389	21.504	18.109	1.00	37.43	O
ATOM	1933	C	SER	249	-26.993	18.256	18.901	1.00	37.43	C
ATOM	1934	O	SER	249	-26.511	17.145	18.686	1.00	37.43	O
ATOM	1935	N	LEU	250	-27.859	18.471	19.910	1.00	87.86	N
ATOM	1936	CA	LEU	250	-28.147	17.411	20.834	1.00	87.86	C
ATOM	1937	CB	LEU	250	-28.968	17.828	22.067	1.00	87.86	C
ATOM	1938	CG	LEU	250	-28.150	18.644	23.086	1.00	87.86	C
ATOM	1939	CD1	LEU	250	-27.774	20.023	22.530	1.00	87.86	C
ATOM	1940	CD2	LEU	250	-28.845	18.699	24.456	1.00	87.86	C
ATOM	1941	C	LEU	250	-28.846	16.272	20.162	1.00	87.86	C
ATOM	1942	O	LEU	250	-28.579	15.117	20.486	1.00	87.86	O
ATOM	1943	N	PHE	251	-29.769	16.551	19.222	1.00	57.72	N
ATOM	1944	CA	PHE	251	-30.493	15.477	18.594	1.00	57.72	C
ATOM	1945	CB	PHE	251	-31.630	15.959	17.671	1.00	57.72	C
ATOM	1946	CG	PHE	251	-32.773	16.348	18.548	1.00	57.72	C
ATOM	1947	CD1	PHE	251	-32.875	17.606	19.089	1.00	57.72	C
ATOM	1948	CD2	PHE	251	-33.758	15.431	18.835	1.00	57.72	C
ATOM	1949	CE1	PHE	251	-33.939	17.937	19.898	1.00	57.72	C
ATOM	1950	CE2	PHE	251	-34.820	15.749	19.645	1.00	57.72	C
ATOM	1951	CZ	PHE	251	-34.911	17.010	20.179	1.00	57.72	C
ATOM	1952	C	PHE	251	-29.588	14.579	17.796	1.00	57.72	C
ATOM	1953	O	PHE	251	-29.720	13.357	17.858	1.00	57.72	O
ATOM	1954	N	PHE	252	-28.696	15.174	16.981	1.00	75.18	N
ATOM	1955	CA	PHE	252	-27.749	14.516	16.115	1.00	75.18	C
ATOM	1956	CB	PHE	252	-27.166	15.471	15.061	1.00	75.18	C
ATOM	1957	CG	PHE	252	-28.215	15.690	14.035	1.00	75.18	C
ATOM	1958	CD1	PHE	252	-29.210	16.616	14.228	1.00	75.18	C
ATOM	1959	CD2	PHE	252	-28.208	14.942	12.883	1.00	75.18	C
ATOM	1960	CE1	PHE	252	-30.179	16.807	13.272	1.00	75.18	C
ATOM	1961	CE2	PHE	252	-29.173	15.135	11.929	1.00	75.18	C
ATOM	1962	CZ	PHE	252	-30.166	16.065	12.118	1.00	75.18	C
ATOM	1963	C	PHE	252	-26.559	13.911	16.809	1.00	75.18	C
ATOM	1964	O	PHE	252	-26.083	12.850	16.411	1.00	75.18	O
ATOM	1965	N	GLY	253	-26.038	14.562	17.864	1.00	37.45	N

ATOM	1966	CA	GLY	253	-24.755	14.191	18.403	1.00	37.45	C
ATOM	1967	C	GLY	253	-24.693	12.753	18.810	1.00	37.45	C
ATOM	1968	O	GLY	253	-23.701	12.078	18.537	1.00	37.45	O
ATOM	1969	N	THR	254	-25.739	12.229	19.463	1.00	39.89	N
ATOM	1970	CA	THR	254	-25.664	10.879	19.932	1.00	39.89	C
ATOM	1971	CB	THR	254	-26.924	10.446	20.615	1.00	39.89	C
ATOM	1972	OG1	THR	254	-28.014	10.531	19.710	1.00	39.89	O
ATOM	1973	CG2	THR	254	-27.172	11.361	21.823	1.00	39.89	C
ATOM	1974	C	THR	254	-25.450	9.962	18.769	1.00	39.89	C
ATOM	1975	O	THR	254	-24.634	9.045	18.843	1.00	39.89	O
ATOM	1976	N	SER	255	-26.168	10.194	17.657	1.00	83.40	N
ATOM	1977	CA	SER	255	-26.080	9.324	16.523	1.00	83.40	C
ATOM	1978	CB	SER	255	-26.991	9.761	15.366	1.00	83.40	C
ATOM	1979	OG	SER	255	-26.865	8.849	14.284	1.00	83.40	O
ATOM	1980	C	SER	255	-24.679	9.323	15.995	1.00	83.40	C
ATOM	1981	O	SER	255	-24.134	8.267	15.683	1.00	83.40	O
ATOM	1982	N	PHE	256	-24.052	10.509	15.896	1.00	67.66	N
ATOM	1983	CA	PHE	256	-22.742	10.615	15.313	1.00	67.66	C
ATOM	1984	CB	PHE	256	-22.281	12.062	15.067	1.00	67.66	C
ATOM	1985	CG	PHE	256	-23.049	12.550	13.885	1.00	67.66	C
ATOM	1986	CD1	PHE	256	-22.666	12.197	12.613	1.00	67.66	C
ATOM	1987	CD2	PHE	256	-24.152	13.360	14.039	1.00	67.66	C
ATOM	1988	CE1	PHE	256	-23.366	12.641	11.514	1.00	67.66	C
ATOM	1989	CE2	PHE	256	-24.855	13.806	12.942	1.00	67.66	C
ATOM	1990	CZ	PHE	256	-24.466	13.448	11.674	1.00	67.66	C
ATOM	1991	C	PHE	256	-21.711	9.914	16.135	1.00	67.66	C
ATOM	1992	O	PHE	256	-20.775	9.333	15.586	1.00	67.66	O
ATOM	1993	N	CYS	257	-21.825	9.972	17.473	1.00	69.62	N
ATOM	1994	CA	CYS	257	-20.838	9.316	18.280	1.00	69.62	C
ATOM	1995	CB	CYS	257	-21.076	9.476	19.794	1.00	69.62	C
ATOM	1996	SG	CYS	257	-19.785	8.657	20.780	1.00	69.62	S
ATOM	1997	C	CYS	257	-20.895	7.850	17.968	1.00	69.62	C
ATOM	1998	O	CYS	257	-19.861	7.200	17.813	1.00	69.62	O
ATOM	1999	N	VAL	258	-22.121	7.304	17.830	1.00	45.25	N
ATOM	2000	CA	VAL	258	-22.344	5.905	17.586	1.00	45.25	C
ATOM	2001	CB	VAL	258	-23.803	5.548	17.495	1.00	45.25	C
ATOM	2002	CG1	VAL	258	-23.922	4.064	17.105	1.00	45.25	C
ATOM	2003	CG2	VAL	258	-24.478	5.893	18.834	1.00	45.25	C
ATOM	2004	C	VAL	258	-21.721	5.512	16.285	1.00	45.25	C
ATOM	2005	O	VAL	258	-21.149	4.428	16.171	1.00	45.25	O
ATOM	2006	N	ASP	259	-21.809	6.391	15.269	1.00	52.62	N
ATOM	2007	CA	ASP	259	-21.285	6.069	13.977	1.00	52.62	C
ATOM	2008	CB	ASP	259	-21.348	7.260	13.003	1.00	52.62	C
ATOM	2009	CG	ASP	259	-22.799	7.546	12.645	1.00	52.62	C
ATOM	2010	OD1	ASP	259	-23.478	6.626	12.129	1.00	52.62	O
ATOM	2011	OD2	ASP	259	-23.250	8.704	12.889	1.00	52.62	O
ATOM	2012	C	ASP	259	-19.843	5.757	14.160	1.00	52.62	C
ATOM	2013	O	ASP	259	-19.352	4.751	13.657	1.00	52.62	O
ATOM	2014	N	PHE	260	-19.126	6.600	14.918	1.00	86.87	N
ATOM	2015	CA	PHE	260	-17.731	6.363	15.124	1.00	86.87	C
ATOM	2016	CB	PHE	260	-17.042	7.464	15.949	1.00	86.87	C
ATOM	2017	CG	PHE	260	-17.038	8.719	15.144	1.00	86.87	C
ATOM	2018	CD1	PHE	260	-16.081	8.918	14.174	1.00	86.87	C
ATOM	2019	CD2	PHE	260	-17.995	9.686	15.347	1.00	86.87	C
ATOM	2020	CE1	PHE	260	-16.076	10.074	13.429	1.00	86.87	C
ATOM	2021	CE2	PHE	260	-17.994	10.845	14.605	1.00	86.87	C
ATOM	2022	CZ	PHE	260	-17.031	11.040	13.644	1.00	86.87	C
ATOM	2023	C	PHE	260	-17.578	5.086	15.882	1.00	86.87	C
ATOM	2024	O	PHE	260	-16.738	4.251	15.559	1.00	86.87	O
ATOM	2025	N	SER	261	-18.428	4.883	16.901	1.00	79.59	N
ATOM	2026	CA	SER	261	-18.264	3.763	17.777	1.00	79.59	C
ATOM	2027	CB	SER	261	-19.398	3.649	18.809	1.00	79.59	C
ATOM	2028	OG	SER	261	-19.181	2.520	19.644	1.00	79.59	O
ATOM	2029	C	SER	261	-18.250	2.476	17.011	1.00	79.59	C
ATOM	2030	O	SER	261	-17.309	1.696	17.147	1.00	79.59	O
ATOM	2031	N	SER	262	-19.268	2.224	16.166	1.00	83.92	N
ATOM	2032	CA	SER	262	-19.354	0.920	15.570	1.00	83.92	C
ATOM	2033	CB	SER	262	-20.605	0.734	14.684	1.00	83.92	C
ATOM	2034	OG	SER	262	-21.781	0.899	15.459	1.00	83.92	O
ATOM	2035	C	SER	262	-18.122	0.549	14.784	1.00	83.92	C
ATOM	2036	O	SER	262	-17.227	-0.081	15.338	1.00	83.92	O
ATOM	2037	N	PRO	263	-18.006	0.907	13.530	1.00144.84	N	
ATOM	2038	CA	PRO	263	-16.895	0.457	12.740	1.00144.84	C	
ATOM	2039	CD	PRO	263	-18.554	2.141	13.005	1.00144.84	C	
ATOM	2040	CB	PRO	263	-17.053	1.145	11.391	1.00144.84	C	
ATOM	2041	CG	PRO	263	-17.697	2.485	11.780	1.00144.84	C	
ATOM	2042	C	PRO	263	-15.592	0.838	13.354	1.00144.84	C	

ATOM	2043	O	PRO	263	-14.663	0.033	13.309	1.00144.84	O
ATOM	2044	N	SER	264	-15.482	2.059	13.907	1.00114.56	N
ATOM	2045	CA	SER	264	-14.193	2.411	14.413	1.00114.56	C
ATOM	2046	CB	SER	264	-14.096	3.848	14.949	1.00114.56	C
ATOM	2047	OG	SER	264	-12.787	4.091	15.438	1.00114.56	O
ATOM	2048	C	SER	264	-13.799	1.506	15.534	1.00114.56	C
ATOM	2049	O	SER	264	-13.100	0.515	15.333	1.00114.56	O
ATOM	2050	N	THR	265	-14.261	1.838	16.758	1.00121.02	N
ATOM	2051	CA	THR	265	-13.840	1.122	17.928	1.00121.02	C
ATOM	2052	CB	THR	265	-14.189	1.820	19.217	1.00121.02	C
ATOM	2053	OG1	THR	265	-13.623	1.120	20.316	1.00121.02	O
ATOM	2054	CG2	THR	265	-15.716	1.919	19.371	1.00121.02	C
ATOM	2055	C	THR	265	-14.379	-0.272	17.992	1.00121.02	C
ATOM	2056	O	THR	265	-13.612	-1.220	18.155	1.00121.02	O
ATOM	2057	N	HIS	266	-15.706	-0.456	17.848	1.00 85.02	N
ATOM	2058	CA	HIS	266	-16.198	-1.793	17.995	1.00 85.02	C
ATOM	2059	ND1	HIS	266	-17.315	-4.561	19.369	1.00 85.02	N
ATOM	2060	CG	HIS	266	-16.286	-3.697	19.669	1.00 85.02	C
ATOM	2061	CB	HIS	266	-16.316	-2.215	19.467	1.00 85.02	C
ATOM	2062	NE2	HIS	266	-15.655	-5.805	20.174	1.00 85.02	N
ATOM	2063	CD2	HIS	266	-15.281	-4.475	20.161	1.00 85.02	C
ATOM	2064	CE1	HIS	266	-16.886	-5.807	19.689	1.00 85.02	C
ATOM	2065	C	HIS	266	-17.574	-1.826	17.412	1.00 85.02	C
ATOM	2066	O	HIS	266	-18.325	-0.859	17.522	1.00 85.02	O
ATOM	2067	N	SER	267	-17.941	-2.950	16.771	1.00105.36	N
ATOM	2068	CA	SER	267	-19.208	-3.042	16.104	1.00105.36	C
ATOM	2069	CB	SER	267	-19.344	-4.344	15.298	1.00105.36	C
ATOM	2070	OG	SER	267	-18.349	-4.381	14.281	1.00105.36	O
ATOM	2071	C	SER	267	-20.315	-2.982	17.107	1.00105.36	C
ATOM	2072	O	SER	267	-21.380	-2.431	16.832	1.00105.36	O
ATOM	2073	N	ALA	268	-20.093	-3.530	18.314	1.00244.22	N
ATOM	2074	CA	ALA	268	-21.142	-3.515	19.287	1.00244.22	C
ATOM	2075	CB	ALA	268	-20.768	-4.208	20.607	1.00244.22	C
ATOM	2076	C	ALA	268	-21.443	-2.092	19.605	1.00244.22	C
ATOM	2077	O	ALA	268	-20.554	-1.248	19.687	1.00244.22	O
ATOM	2078	N	GLN	269	-22.739	-1.785	19.777	1.00326.41	N
ATOM	2079	CA	GLN	269	-23.119	-0.445	20.086	1.00326.41	C
ATOM	2080	CB	GLN	269	-23.260	0.476	18.854	1.00326.41	C
ATOM	2081	CG	GLN	269	-24.414	0.131	17.903	1.00326.41	C
ATOM	2082	CD	GLN	269	-24.076	-1.118	17.097	1.00326.41	C
ATOM	2083	OE1	GLN	269	-24.123	-2.238	17.604	1.00326.41	O
ATOM	2084	NE2	GLN	269	-23.743	-0.927	15.793	1.00326.41	N
ATOM	2085	C	GLN	269	-24.458	-0.526	20.726	1.00326.41	C
ATOM	2086	O	GLN	269	-24.897	-1.593	21.153	1.00326.41	O
ATOM	2087	N	LYS	270	-25.137	0.629	20.831	1.00148.54	N
ATOM	2088	CA	LYS	270	-26.458	0.610	21.370	1.00148.54	C
ATOM	2089	CB	LYS	270	-27.143	1.995	21.411	1.00148.54	C
ATOM	2090	CG	LYS	270	-26.682	2.898	22.567	1.00148.54	C
ATOM	2091	CD	LYS	270	-27.036	2.344	23.955	1.00148.54	C
ATOM	2092	CE	LYS	270	-26.662	3.254	25.130	1.00148.54	C
ATOM	2093	NZ	LYS	270	-27.059	2.621	26.411	1.00148.54	N
ATOM	2094	C	LYS	270	-27.228	-0.308	20.479	1.00148.54	C
ATOM	2095	O	LYS	270	-26.889	-0.488	19.310	1.00148.54	O
ATOM	2096	N	ASP	271	-28.264	-0.954	21.040	1.00117.45	N
ATOM	2097	CA	ASP	271	-28.984	-1.975	20.337	1.00117.45	C
ATOM	2098	CB	ASP	271	-30.067	-2.614	21.219	1.00117.45	C
ATOM	2099	CG	ASP	271	-30.596	-3.838	20.497	1.00117.45	C
ATOM	2100	OD1	ASP	271	-29.922	-4.299	19.534	1.00117.45	O
ATOM	2101	OD2	ASP	271	-31.682	-4.329	20.899	1.00117.45	O
ATOM	2102	C	ASP	271	-29.664	-1.466	19.097	1.00117.45	C
ATOM	2103	O	ASP	271	-29.429	-1.989	18.009	1.00117.45	O
ATOM	2104	N	THR	272	-30.487	-0.404	19.194	1.00263.98	N
ATOM	2105	CA	THR	272	-31.242	-0.043	18.023	1.00263.98	C
ATOM	2106	CB	THR	272	-32.731	-0.165	18.198	1.00263.98	C
ATOM	2107	OG1	THR	272	-33.186	0.714	19.216	1.00263.98	O
ATOM	2108	CG2	THR	272	-33.064	-1.621	18.568	1.00263.98	C
ATOM	2109	C	THR	272	-30.953	1.374	17.654	1.00263.98	C
ATOM	2110	O	THR	272	-30.175	2.050	18.322	1.00263.98	O
ATOM	2111	N	VAL	273	-31.564	1.845	16.543	1.00205.23	N
ATOM	2112	CA	VAL	273	-31.322	3.178	16.075	1.00205.23	C
ATOM	2113	CB	VAL	273	-31.408	3.274	14.583	1.00205.23	C
ATOM	2114	CG1	VAL	273	-30.266	2.446	13.966	1.00205.23	C
ATOM	2115	CG2	VAL	273	-32.796	2.773	14.151	1.00205.23	C
ATOM	2116	C	VAL	273	-32.339	4.106	16.671	1.00205.23	C
ATOM	2117	O	VAL	273	-33.078	4.800	15.970	1.00205.23	O
ATOM	2118	N	ALA	274	-32.373	4.166	18.012	1.00 47.44	N
ATOM	2119	CA	ALA	274	-33.237	5.081	18.701	1.00 47.44	C

ATOM	2120	CB	ALA	274	-33.190	4.897	20.227	1.00	47.44	C
ATOM	2121	C	ALA	274	-32.726	6.450	18.398	1.00	47.44	C
ATOM	2122	O	ALA	274	-33.480	7.406	18.217	1.00	47.44	O
ATOM	2123	N	SER	275	-31.387	6.541	18.332	1.00	75.84	N
ATOM	2124	CA	SER	275	-30.660	7.758	18.136	1.00	75.84	C
ATOM	2125	CB	SER	275	-29.142	7.519	18.089	1.00	75.84	C
ATOM	2126	OG	SER	275	-28.461	8.740	17.849	1.00	75.84	O
ATOM	2127	C	SER	275	-31.031	8.376	16.829	1.00	75.84	C
ATOM	2128	O	SER	275	-31.094	9.599	16.718	1.00	75.84	O
ATOM	2129	N	VAL	276	-31.264	7.550	15.797	1.00	32.68	N
ATOM	2130	CA	VAL	276	-31.567	8.061	14.492	1.00	32.68	C
ATOM	2131	CB	VAL	276	-31.673	6.968	13.472	1.00	32.68	C
ATOM	2132	CG1	VAL	276	-32.016	7.603	12.116	1.00	32.68	C
ATOM	2133	CG2	VAL	276	-30.359	6.169	13.471	1.00	32.68	C
ATOM	2134	C	VAL	276	-32.872	8.793	14.529	1.00	32.68	C
ATOM	2135	O	VAL	276	-33.014	9.867	13.944	1.00	32.68	O
ATOM	2136	N	MET	277	-33.859	8.217	15.240	1.00	119.09	N
ATOM	2137	CA	MET	277	-35.183	8.758	15.343	1.00	119.09	C
ATOM	2138	CB	MET	277	-36.118	7.834	16.142	1.00	119.09	C
ATOM	2139	CG	MET	277	-36.370	6.499	15.436	1.00	119.09	C
ATOM	2140	SD	MET	277	-37.257	5.258	16.425	1.00	119.09	S
ATOM	2141	CE	MET	277	-35.781	4.638	17.280	1.00	119.09	C
ATOM	2142	C	MET	277	-35.117	10.073	16.050	1.00	119.09	C
ATOM	2143	O	MET	277	-35.877	10.990	15.754	1.00	119.09	O
ATOM	2144	N	TYR	278	-34.207	10.200	17.025	1.00	130.33	N
ATOM	2145	CA	TYR	278	-34.111	11.415	17.774	1.00	130.33	C
ATOM	2146	CB	TYR	278	-33.019	11.310	18.852	1.00	130.33	C
ATOM	2147	CG	TYR	278	-33.275	12.325	19.910	1.00	130.33	C
ATOM	2148	CD1	TYR	278	-34.454	12.267	20.615	1.00	130.33	C
ATOM	2149	CD2	TYR	278	-32.342	13.281	20.250	1.00	130.33	C
ATOM	2150	CE1	TYR	278	-34.724	13.170	21.615	1.00	130.33	C
ATOM	2151	CE2	TYR	278	-32.610	14.190	21.252	1.00	130.33	C
ATOM	2152	CZ	TYR	278	-33.805	14.138	21.933	1.00	130.33	C
ATOM	2153	OH	TYR	278	-34.087	15.061	22.962	1.00	130.33	O
ATOM	2154	C	TYR	278	-33.748	12.474	16.783	1.00	130.33	C
ATOM	2155	O	TYR	278	-34.233	13.603	16.846	1.00	130.33	O
ATOM	2156	N	THR	279	-32.863	12.118	15.833	1.00	51.20	N
ATOM	2157	CA	THR	279	-32.446	13.006	14.789	1.00	51.20	C
ATOM	2158	CB	THR	279	-31.494	12.348	13.842	1.00	51.20	C
ATOM	2159	OG1	THR	279	-30.260	12.054	14.477	1.00	51.20	O
ATOM	2160	CG2	THR	279	-31.319	13.253	12.618	1.00	51.20	C
ATOM	2161	C	THR	279	-33.610	13.419	13.934	1.00	51.20	C
ATOM	2162	O	THR	279	-33.803	14.606	13.679	1.00	51.20	O
ATOM	2163	N	VAL	280	-34.424	12.443	13.486	1.00	119.43	N
ATOM	2164	CA	VAL	280	-35.503	12.677	12.559	1.00	119.43	C
ATOM	2165	CB	VAL	280	-36.222	11.419	12.144	1.00	119.43	C
ATOM	2166	CG1	VAL	280	-35.190	10.424	11.590	1.00	119.43	C
ATOM	2167	CG2	VAL	280	-37.074	10.881	13.301	1.00	119.43	C
ATOM	2168	C	VAL	280	-36.524	13.573	13.185	1.00	119.43	C
ATOM	2169	O	VAL	280	-37.156	14.387	12.516	1.00	119.43	O
ATOM	2170	N	VAL	281	-36.726	13.414	14.498	1.00	51.13	N
ATOM	2171	CA	VAL	281	-37.689	14.173	15.234	1.00	51.13	C
ATOM	2172	CB	VAL	281	-37.736	13.781	16.684	1.00	51.13	C
ATOM	2173	CG1	VAL	281	-38.711	14.725	17.406	1.00	51.13	C
ATOM	2174	CG2	VAL	281	-38.090	12.286	16.791	1.00	51.13	C
ATOM	2175	C	VAL	281	-37.318	15.623	15.192	1.00	51.13	C
ATOM	2176	O	VAL	281	-38.195	16.481	15.129	1.00	51.13	O
ATOM	2177	N	THR	282	-36.013	15.951	15.187	1.00	141.05	N
ATOM	2178	CA	THR	282	-35.643	17.337	15.300	1.00	141.05	C
ATOM	2179	CB	THR	282	-34.172	17.614	15.529	1.00	141.05	C
ATOM	2180	OG1	THR	282	-34.001	18.983	15.865	1.00	141.05	O
ATOM	2181	CG2	THR	282	-33.303	17.257	14.316	1.00	141.05	C
ATOM	2182	C	THR	282	-36.211	18.143	14.169	1.00	141.05	C
ATOM	2183	O	THR	282	-36.414	19.350	14.346	1.00	141.05	O
ATOM	2184	N	PRO	283	-36.481	17.599	13.017	1.00	158.92	N
ATOM	2185	CA	PRO	283	-37.109	18.403	12.004	1.00	158.92	C
ATOM	2186	CD	PRO	283	-35.547	16.664	12.408	1.00	158.92	C
ATOM	2187	CB	PRO	283	-37.113	17.526	10.759	1.00	158.92	C
ATOM	2188	CG	PRO	283	-35.795	16.745	10.893	1.00	158.92	C
ATOM	2189	C	PRO	283	-38.439	18.995	12.407	1.00	158.92	C
ATOM	2190	O	PRO	283	-38.916	19.902	11.727	1.00	158.92	O
ATOM	2191	N	MET	284	-39.112	18.460	13.439	1.00	127.87	N
ATOM	2192	CA	MET	284	-40.347	19.018	13.931	1.00	127.87	C
ATOM	2193	CB	MET	284	-41.113	18.064	14.871	1.00	127.87	C
ATOM	2194	CG	MET	284	-40.379	17.763	16.182	1.00	127.87	C
ATOM	2195	SD	MET	284	-41.256	16.645	17.320	1.00	127.87	S
ATOM	2196	CE	MET	284	-41.929	17.967	18.367	1.00	127.87	C

ATOM	2197	C	MET	284	-40.151	20.299	14.710	1.00127.87	C
ATOM	2198	O	MET	284	-41.027	21.160	14.721	1.00127.87	O
ATOM	2199	N	LEU	285	-39.012	20.424	15.419	1.00 69.67	N
ATOM	2200	CA	LEU	285	-38.725	21.434	16.414	1.00 69.67	C
ATOM	2201	CB	LEU	285	-37.419	21.124	17.151	1.00 69.67	C
ATOM	2202	CG	LEU	285	-37.429	19.727	17.794	1.00 69.67	C
ATOM	2203	CD1	LEU	285	-36.139	19.473	18.583	1.00 69.67	C
ATOM	2204	CD2	LEU	285	-38.702	19.498	18.623	1.00 69.67	C
ATOM	2205	C	LEU	285	-38.615	22.867	15.957	1.00 69.67	C
ATOM	2206	O	LEU	285	-39.117	23.757	16.643	1.00 69.67	O
ATOM	2207	N	ASN	286	-37.981	23.156	14.805	1.00 75.55	N
ATOM	2208	CA	ASN	286	-37.685	24.522	14.444	1.00 75.55	C
ATOM	2209	CB	ASN	286	-37.119	24.679	13.020	1.00 75.55	C
ATOM	2210	CG	ASN	286	-35.738	24.058	12.910	1.00 75.55	C
ATOM	2211	OD1	ASN	286	-35.202	23.516	13.876	1.00 75.55	O
ATOM	2212	ND2	ASN	286	-35.146	24.155	11.688	1.00 75.55	N
ATOM	2213	C	ASN	286	-38.918	25.378	14.440	1.00 75.55	C
ATOM	2214	O	ASN	286	-38.862	26.510	14.910	1.00 75.55	O
ATOM	2215	N	PRO	287	-40.026	24.918	13.928	1.00 78.60	N
ATOM	2216	CA	PRO	287	-41.183	25.766	13.887	1.00 78.60	C
ATOM	2217	CD	PRO	287	-40.050	23.903	12.887	1.00 78.60	C
ATOM	2218	CB	PRO	287	-42.231	24.981	13.098	1.00 78.60	C
ATOM	2219	CG	PRO	287	-41.385	24.111	12.146	1.00 78.60	C
ATOM	2220	C	PRO	287	-41.614	26.205	15.253	1.00 78.60	C
ATOM	2221	O	PRO	287	-42.094	27.330	15.387	1.00 78.60	O
ATOM	2222	N	PHE	288	-41.471	25.341	16.275	1.00 92.79	N
ATOM	2223	CA	PHE	288	-41.864	25.718	17.604	1.00 92.79	C
ATOM	2224	CB	PHE	288	-41.812	24.576	18.631	1.00 92.79	C
ATOM	2225	CG	PHE	288	-42.779	23.527	18.214	1.00 92.79	C
ATOM	2226	CD1	PHE	288	-44.129	23.686	18.432	1.00 92.79	C
ATOM	2227	CD2	PHE	288	-42.335	22.388	17.581	1.00 92.79	C
ATOM	2228	CE1	PHE	288	-45.024	22.719	18.043	1.00 92.79	C
ATOM	2229	CE2	PHE	288	-43.224	21.418	17.193	1.00 92.79	C
ATOM	2230	CZ	PHE	288	-44.570	21.578	17.426	1.00 92.79	C
ATOM	2231	C	PHE	288	-40.925	26.768	18.099	1.00 92.79	C
ATOM	2232	O	PHE	288	-41.334	27.723	18.759	1.00 92.79	O
ATOM	2233	N	ILE	289	-39.629	26.603	17.782	1.00 49.33	N
ATOM	2234	CA	ILE	289	-38.583	27.470	18.241	1.00 49.33	C
ATOM	2235	CB	ILE	289	-37.226	27.034	17.763	1.00 49.33	C
ATOM	2236	CG2	ILE	289	-36.201	28.093	18.201	1.00 49.33	C
ATOM	2237	CG1	ILE	289	-36.903	25.620	18.283	1.00 49.33	C
ATOM	2238	CD1	ILE	289	-35.631	25.020	17.680	1.00 49.33	C
ATOM	2239	C	ILE	289	-38.842	28.856	17.733	1.00 49.33	C
ATOM	2240	O	ILE	289	-38.586	29.839	18.425	1.00 49.33	O
ATOM	2241	N	TYR	290	-39.365	28.966	16.503	1.00 73.89	N
ATOM	2242	CA	TYR	290	-39.635	30.233	15.887	1.00 73.89	C
ATOM	2243	CB	TYR	290	-40.235	30.115	14.480	1.00 73.89	C
ATOM	2244	CG	TYR	290	-39.174	29.512	13.636	1.00 73.89	C
ATOM	2245	CD1	TYR	290	-37.948	30.126	13.507	1.00 73.89	C
ATOM	2246	CD2	TYR	290	-39.425	28.353	12.946	1.00 73.89	C
ATOM	2247	CE1	TYR	290	-36.971	29.561	12.725	1.00 73.89	C
ATOM	2248	CE2	TYR	290	-38.452	27.786	12.163	1.00 73.89	C
ATOM	2249	CZ	TYR	290	-37.220	28.386	12.057	1.00 73.89	C
ATOM	2250	OH	TYR	290	-36.214	27.803	11.256	1.00 73.89	O
ATOM	2251	C	TYR	290	-40.624	30.978	16.723	1.00 73.89	C
ATOM	2252	O	TYR	290	-40.635	32.209	16.734	1.00 73.89	O
ATOM	2253	N	SER	291	-41.505	30.246	17.425	1.00 40.54	N
ATOM	2254	CA	SER	291	-42.515	30.869	18.227	1.00 40.54	C
ATOM	2255	CB	SER	291	-43.288	29.870	19.112	1.00 40.54	C
ATOM	2256	OG	SER	291	-44.023	28.946	18.320	1.00 40.54	O
ATOM	2257	C	SER	291	-41.833	31.810	19.167	1.00 40.54	C
ATOM	2258	O	SER	291	-42.426	32.799	19.600	1.00 40.54	O
ATOM	2259	N	LEU	292	-40.552	31.549	19.484	1.00 49.80	N
ATOM	2260	CA	LEU	292	-39.849	32.385	20.410	1.00 49.80	C
ATOM	2261	CB	LEU	292	-38.397	31.938	20.645	1.00 49.80	C
ATOM	2262	CG	LEU	292	-38.323	30.563	21.332	1.00 49.80	C
ATOM	2263	CD1	LEU	292	-36.877	30.183	21.694	1.00 49.80	C
ATOM	2264	CD2	LEU	292	-39.287	30.497	22.527	1.00 49.80	C
ATOM	2265	C	LEU	292	-39.829	33.779	19.881	1.00 49.80	C
ATOM	2266	O	LEU	292	-40.064	34.722	20.635	1.00 49.80	O
ATOM	2267	N	ARG	293	-39.558	33.983	18.578	1.00194.51	N
ATOM	2268	CA	ARG	293	-39.614	35.352	18.167	1.00194.51	C
ATOM	2269	CB	ARG	293	-38.775	35.676	16.918	1.00194.51	C
ATOM	2270	CG	ARG	293	-39.161	34.892	15.667	1.00194.51	C
ATOM	2271	CD	ARG	293	-38.086	34.910	14.586	1.00194.51	C
ATOM	2272	NE	ARG	293	-37.156	33.784	14.871	1.00194.51	N
ATOM	2273	CZ	ARG	293	-36.508	33.184	13.831	1.00194.51	C

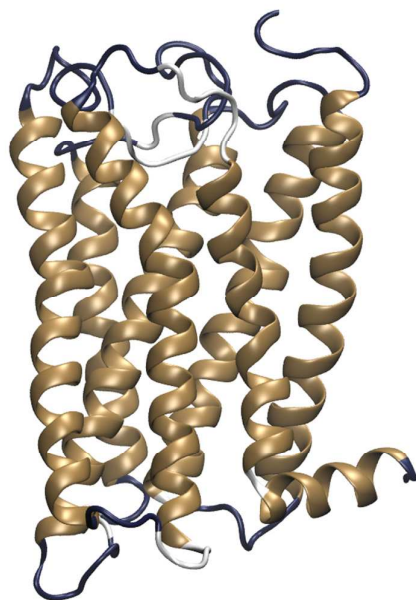
ATOM	2274	NH1	ARG	293	-36.740	33.607	12.556	1.00194.51	N
ATOM	2275	NH2	ARG	293	-35.640	32.158	14.065	1.00194.51	N
ATOM	2276	C	ARG	293	-41.055	35.607	17.921	1.00194.51	C
ATOM	2277	O	ARG	293	-41.582	35.426	16.825	1.00194.51	O
ATOM	2278	N	ASN	294	-41.734	36.025	18.999	1.00 40.31	N
ATOM	2279	CA	ASN	294	-43.145	36.219	18.973	1.00 40.31	C
ATOM	2280	CB	ASN	294	-43.712	36.577	20.356	1.00 40.31	C
ATOM	2281	CG	ASN	294	-43.561	35.354	21.250	1.00 40.31	C
ATOM	2282	OD1	ASN	294	-42.453	34.873	21.479	1.00 40.31	O
ATOM	2283	ND2	ASN	294	-44.705	34.832	21.768	1.00 40.31	N
ATOM	2284	C	ASN	294	-43.478	37.339	18.055	1.00 40.31	C
ATOM	2285	O	ASN	294	-44.427	37.252	17.281	1.00 40.31	O
ATOM	2286	N	GLN	295	-42.708	38.436	18.102	1.00119.24	N
ATOM	2287	CA	GLN	295	-43.179	39.525	17.314	1.00119.24	C
ATOM	2288	CB	GLN	295	-42.390	40.824	17.540	1.00119.24	C
ATOM	2289	CG	GLN	295	-40.922	40.750	17.128	1.00119.24	C
ATOM	2290	CD	GLN	295	-40.313	42.117	17.402	1.00119.24	C
ATOM	2291	OE1	GLN	295	-40.678	43.110	16.774	1.00119.24	O
ATOM	2292	NE2	GLN	295	-39.362	42.173	18.372	1.00119.24	N
ATOM	2293	C	GLN	295	-43.171	39.204	15.850	1.00119.24	C
ATOM	2294	O	GLN	295	-44.210	39.287	15.201	1.00119.24	O
ATOM	2295	N	GLU	296	-42.026	38.799	15.274	1.00 70.63	N
ATOM	2296	CA	GLU	296	-42.118	38.588	13.859	1.00 70.63	C
ATOM	2297	CB	GLU	296	-40.753	38.565	13.160	1.00 70.63	C
ATOM	2298	CG	GLU	296	-40.106	39.949	13.095	1.00 70.63	C
ATOM	2299	CD	GLU	296	-38.767	39.809	12.384	1.00 70.63	C
ATOM	2300	OE1	GLU	296	-37.758	39.547	13.084	1.00 70.63	O
ATOM	2301	OE2	GLU	296	-38.743	39.958	11.132	1.00 70.63	O
ATOM	2302	C	GLU	296	-42.837	37.321	13.492	1.00 70.63	C
ATOM	2303	O	GLU	296	-43.873	37.356	12.832	1.00 70.63	O
ATOM	2304	N	ILE	297	-42.312	36.162	13.943	1.00 58.90	N
ATOM	2305	CA	ILE	297	-42.870	34.899	13.547	1.00 58.90	C
ATOM	2306	CB	ILE	297	-41.986	33.720	13.859	1.00 58.90	C
ATOM	2307	CG2	ILE	297	-42.785	32.423	13.648	1.00 58.90	C
ATOM	2308	CG1	ILE	297	-40.723	33.795	12.985	1.00 58.90	C
ATOM	2309	CD1	ILE	297	-39.664	32.759	13.341	1.00 58.90	C
ATOM	2310	C	ILE	297	-44.208	34.678	14.163	1.00 58.90	C
ATOM	2311	O	ILE	297	-45.149	34.309	13.464	1.00 58.90	O
ATOM	2312	N	LYS	298	-44.354	34.923	15.480	1.00121.87	N
ATOM	2313	CA	LYS	298	-45.633	34.648	16.068	1.00121.87	C
ATOM	2314	CB	LYS	298	-45.724	34.874	17.587	1.00121.87	C
ATOM	2315	CG	LYS	298	-45.420	33.640	18.429	1.00121.87	C
ATOM	2316	CD	LYS	298	-46.492	32.556	18.281	1.00121.87	C
ATOM	2317	CE	LYS	298	-46.412	31.472	19.354	1.00121.87	C
ATOM	2318	NZ	LYS	298	-47.669	30.692	19.368	1.00121.87	N
ATOM	2319	C	LYS	298	-46.659	35.504	15.418	1.00121.87	C
ATOM	2320	O	LYS	298	-47.764	35.040	15.151	1.00121.87	O
ATOM	2321	N	SER	299	-46.332	36.774	15.134	1.00 31.49	N
ATOM	2322	CA	SER	299	-47.330	37.600	14.530	1.00 31.49	C
ATOM	2323	CB	SER	299	-46.874	39.053	14.318	1.00 31.49	C
ATOM	2324	OG	SER	299	-46.734	39.705	15.571	1.00 31.49	O
ATOM	2325	C	SER	299	-47.690	37.024	13.195	1.00 31.49	C
ATOM	2326	O	SER	299	-48.866	36.977	12.839	1.00 31.49	O
ATOM	2327	N	SER	300	-46.686	36.559	12.426	1.00 74.61	N
ATOM	2328	CA	SER	300	-46.945	36.043	11.110	1.00 74.61	C
ATOM	2329	CB	SER	300	-45.657	35.671	10.352	1.00 74.61	C
ATOM	2330	OG	SER	300	-45.972	35.170	9.062	1.00 74.61	O
ATOM	2331	C	SER	300	-47.793	34.811	11.208	1.00 74.61	C
ATOM	2332	O	SER	300	-48.805	34.685	10.519	1.00 74.61	O
ATOM	2333	N	LEU	301	-47.399	33.871	12.091	1.00 91.19	N
ATOM	2334	CA	LEU	301	-48.084	32.623	12.281	1.00 91.19	C
ATOM	2335	CB	LEU	301	-47.349	31.725	13.290	1.00 91.19	C
ATOM	2336	CG	LEU	301	-46.097	31.035	12.709	1.00 91.19	C
ATOM	2337	CD1	LEU	301	-45.182	32.022	11.963	1.00 91.19	C
ATOM	2338	CD2	LEU	301	-45.347	30.265	13.812	1.00 91.19	C
ATOM	2339	C	LEU	301	-49.463	32.885	12.791	1.00 91.19	C
ATOM	2340	O	LEU	301	-50.417	32.242	12.358	1.00 91.19	O
ATOM	2341	N	ARG	302	-49.609	33.854	13.713	1.00144.20	N
ATOM	2342	CA	ARG	302	-50.878	34.161	14.308	1.00144.20	C
ATOM	2343	CB	ARG	302	-50.781	35.293	15.349	1.00144.20	C
ATOM	2344	CG	ARG	302	-52.057	35.496	16.168	1.00144.20	C
ATOM	2345	CD	ARG	302	-51.905	36.531	17.286	1.00144.20	C
ATOM	2346	NE	ARG	302	-53.214	36.630	17.993	1.00144.20	N
ATOM	2347	CZ	ARG	302	-53.259	36.683	19.357	1.00144.20	C
ATOM	2348	NH1	ARG	302	-52.109	36.572	20.087	1.00144.20	N
ATOM	2349	NH2	ARG	302	-54.453	36.853	19.993	1.00144.20	N
ATOM	2350	C	ARG	302	-51.796	34.601	13.218	1.00144.20	C

ATOM	2351	O	ARG	302	-52.988	34.301	13.243	1.00144.20	O
ATOM	2352	N	LYS	303	-51.269	35.351	12.234	1.00 65.80	N
ATOM	2353	CA	LYS	303	-52.086	35.796	11.142	1.00 65.80	C
ATOM	2354	CB	LYS	303	-51.303	36.625	10.107	1.00 65.80	C
ATOM	2355	CG	LYS	303	-50.661	37.902	10.651	1.00 65.80	C
ATOM	2356	CD	LYS	303	-49.639	38.520	9.692	1.00 65.80	C
ATOM	2357	CE	LYS	303	-48.961	39.778	10.238	1.00 65.80	C
ATOM	2358	NZ	LYS	303	-47.962	40.278	9.266	1.00 65.80	N
ATOM	2359	C	LYS	303	-52.565	34.589	10.395	1.00 65.80	C
ATOM	2360	O	LYS	303	-53.754	34.451	10.110	1.00 65.80	O
ATOM	2361	N	LEU	304	-51.631	33.664	10.085	1.00 43.68	N
ATOM	2362	CA	LEU	304	-51.941	32.508	9.292	1.00 43.68	C
ATOM	2363	CB	LEU	304	-50.718	31.618	9.006	1.00 43.68	C
ATOM	2364	CG	LEU	304	-49.652	32.284	8.115	1.00 43.68	C
ATOM	2365	CD1	LEU	304	-48.466	31.337	7.867	1.00 43.68	C
ATOM	2366	CD2	LEU	304	-50.265	32.834	6.816	1.00 43.68	C
ATOM	2367	C	LEU	304	-52.929	31.668	10.028	1.00 43.68	C
ATOM	2368	O	LEU	304	-53.877	31.162	9.434	1.00 43.68	O
ATOM	2369	N	ILE	305	-52.711	31.481	11.342	1.00 89.30	N
ATOM	2370	CA	ILE	305	-53.587	30.691	12.157	1.00 89.30	C
ATOM	2371	CB	ILE	305	-53.042	30.433	13.530	1.00 89.30	C
ATOM	2372	CG2	ILE	305	-54.186	29.871	14.385	1.00 89.30	C
ATOM	2373	CG1	ILE	305	-51.834	29.487	13.450	1.00 89.30	C
ATOM	2374	CD1	ILE	305	-52.204	28.109	12.899	1.00 89.30	C
ATOM	2375	C	ILE	305	-54.918	31.360	12.308	1.00 89.30	C
ATOM	2376	O	ILE	305	-55.956	30.713	12.182	1.00 89.30	O
ATOM	2377	N	TRP	306	-54.924	32.683	12.562	1.00 86.96	N
ATOM	2378	CA	TRP	306	-56.140	33.415	12.786	1.00 86.96	C
ATOM	2379	CB	TRP	306	-57.031	33.588	11.544	1.00 86.96	C
ATOM	2380	CG	TRP	306	-56.630	34.727	10.639	1.00 86.96	C
ATOM	2381	CD2	TRP	306	-56.765	34.715	9.210	1.00 86.96	C
ATOM	2382	CD1	TRP	306	-56.100	35.938	10.969	1.00 86.96	C
ATOM	2383	NE1	TRP	306	-55.899	36.688	9.834	1.00 86.96	N
ATOM	2384	CE2	TRP	306	-56.304	35.945	8.746	1.00 86.96	C
ATOM	2385	CE3	TRP	306	-57.231	33.758	8.357	1.00 86.96	C
ATOM	2386	CZ2	TRP	306	-56.301	36.238	7.412	1.00 86.96	C
ATOM	2387	CZ3	TRP	306	-57.232	34.057	7.012	1.00 86.96	C
ATOM	2388	CH2	TRP	306	-56.776	35.272	6.551	1.00 86.96	C
ATOM	2389	C	TRP	306	-56.967	32.794	13.860	1.00 86.96	C
ATOM	2390	O	TRP	306	-58.167	32.593	13.678	1.00 86.96	O
ATOM	2391	N	VAL	307	-56.368	32.470	15.021	1.00131.49	N
ATOM	2392	CA	VAL	307	-57.216	31.976	16.066	1.00131.49	C
ATOM	2393	CB	VAL	307	-56.499	31.350	17.229	1.00131.49	C
ATOM	2394	CG1	VAL	307	-55.894	30.009	16.782	1.00131.49	C
ATOM	2395	CG2	VAL	307	-55.457	32.352	17.748	1.00131.49	C
ATOM	2396	C	VAL	307	-58.018	33.133	16.572	1.00131.49	C
ATOM	2397	O	VAL	307	-57.529	34.262	16.623	1.00131.49	O
ATOM	2398	N	ARG	308	-59.291	32.867	16.939	1.00233.27	N
ATOM	2399	CA	ARG	308	-60.205	33.880	17.391	1.00233.27	C
ATOM	2400	CB	ARG	308	-61.407	34.095	16.453	1.00233.27	C
ATOM	2401	CG	ARG	308	-61.071	34.557	15.036	1.00233.27	C
ATOM	2402	CD	ARG	308	-62.302	34.539	14.126	1.00233.27	C
ATOM	2403	NE	ARG	308	-61.895	34.991	12.767	1.00233.27	N
ATOM	2404	CZ	ARG	308	-62.366	34.324	11.675	1.00233.27	C
ATOM	2405	NH1	ARG	308	-63.181	33.237	11.840	1.00233.27	N
ATOM	2406	NH2	ARG	308	-62.019	34.731	10.421	1.00233.27	N
ATOM	2407	C	ARG	308	-60.815	33.393	18.666	1.00233.27	C
ATOM	2408	O	ARG	308	-60.405	32.372	19.215	1.00233.27	O
ATOM	2409	N	LYS	309	-61.807	34.151	19.182	1.00249.86	N
ATOM	2410	CA	LYS	309	-62.517	33.779	20.370	1.00249.86	C
ATOM	2411	CB	LYS	309	-62.681	34.935	21.379	1.00249.86	C
ATOM	2412	CG	LYS	309	-63.440	34.546	22.651	1.00249.86	C
ATOM	2413	CD	LYS	309	-63.241	35.515	23.819	1.00249.86	C
ATOM	2414	CE	LYS	309	-61.991	35.218	24.652	1.00249.86	C
ATOM	2415	NZ	LYS	309	-60.773	35.513	23.864	1.00249.86	N
ATOM	2416	C	LYS	309	-63.873	33.297	19.947	1.00249.86	C
ATOM	2417	O	LYS	309	-64.305	33.545	18.822	1.00249.86	O
ATOM	2418	N	ILE	310	-64.573	32.574	20.848	1.00145.08	N
ATOM	2419	CA	ILE	310	-65.856	31.973	20.581	1.00145.08	C
ATOM	2420	CB	ILE	310	-66.364	31.125	21.715	1.00145.08	C
ATOM	2421	CG2	ILE	310	-66.550	32.043	22.931	1.00145.08	C
ATOM	2422	CG1	ILE	310	-67.638	30.362	21.313	1.00145.08	C
ATOM	2423	CD1	ILE	310	-68.102	29.345	22.359	1.00145.08	C
ATOM	2424	C	ILE	310	-66.884	33.029	20.332	1.00145.08	C
ATOM	2425	O	ILE	310	-66.873	34.088	20.958	1.00145.08	O
ATOM	2426	N	HIS	311	-67.797	32.759	19.371	1.00256.42	N
ATOM	2427	CA	HIS	311	-68.842	33.684	19.034	1.00256.42	C

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ATOM	2428	ND1	HIS	311	-69.075	36.368	17.068	1.00256.42	N
ATOM	2429	CG	HIS	311	-69.696	35.138	17.109	1.00256.42	C
ATOM	2430	CB	HIS	311	-68.985	33.879	17.512	1.00256.42	C
ATOM	2431	NE2	HIS	311	-71.168	36.693	16.392	1.00256.42	N
ATOM	2432	CD2	HIS	311	-70.971	35.354	16.693	1.00256.42	C
ATOM	2433	CE1	HIS	311	-69.999	37.259	16.635	1.00256.42	C
ATOM	2434	C	HIS	311	-70.119	33.082	19.545	1.00256.42	C
ATOM	2435	O	HIS	311	-70.309	31.868	19.478	1.00256.42	O
ATOM	2436	N	SER	312	-71.021	33.921	20.096	1.00153.99	N
ATOM	2437	CA	SER	312	-72.248	33.426	20.657	1.00153.99	C
ATOM	2438	CB	SER	312	-72.978	34.451	21.546	1.00153.99	C
ATOM	2439	OG	SER	312	-74.200	33.906	22.025	1.00153.99	O
ATOM	2440	C	SER	312	-73.190	33.053	19.562	1.00153.99	C
ATOM	2441	O	SER	312	-73.318	33.743	18.549	1.00153.99	O
ATOM	2442	N	PRO	313	-73.842	31.943	19.765	1.00136.72	N
ATOM	2443	CA	PRO	313	-74.826	31.530	18.801	1.00136.72	C
ATOM	2444	CD	PRO	313	-73.076	30.804	20.251	1.00136.72	C
ATOM	2445	CB	PRO	313	-74.847	30.005	18.816	1.00136.72	C
ATOM	2446	CG	PRO	313	-73.456	29.624	19.347	1.00136.72	C
ATOM	2447	C	PRO	313	-76.142	32.124	19.183	1.00136.72	C
ATOM	2448	O	PRO	313	-77.160	31.785	18.522	1.00136.72	O
ATOM	2449	OXT	PRO	313	-76.169	32.932	20.150	1.00136.72	O
TER	2450		PRO	313					
END									

PDB and structure of OR1G1 built by homology modeling using PDB ids 1U19, 2LNL and 2RH1 as templates.



ATOM	1	N	MET	1	-30.124	-4.703	1.154	1.00	96.76	N
ATOM	2	CA	MET	1	-30.545	-5.403	2.390	1.00	96.76	C
ATOM	3	CB	MET	1	-29.562	-6.538	2.723	1.00	96.76	C
ATOM	4	CG	MET	1	-29.395	-7.614	1.654	1.00	96.76	C
ATOM	5	SD	MET	1	-28.381	-9.025	2.193	1.00	96.76	S
ATOM	6	CE	MET	1	-26.871	-8.046	2.434	1.00	96.76	C
ATOM	7	C	MET	1	-30.400	-4.464	3.534	1.00	96.76	C
ATOM	8	O	MET	1	-29.573	-3.561	3.486	1.00	96.76	O
ATOM	9	N	GLU	2	-31.248	-4.616	4.564	1.00158.04		N
ATOM	10	CA	GLU	2	-31.052	-3.869	5.767	1.00158.04		C
ATOM	11	CB	GLU	2	-32.282	-3.235	6.435	1.00158.04		C
ATOM	12	CG	GLU	2	-32.512	-1.776	6.052	1.00158.04		C
ATOM	13	CD	GLU	2	-32.362	-1.646	4.556	1.00158.04		C
ATOM	14	OE1	GLU	2	-31.214	-1.725	4.049	1.00158.04		O
ATOM	15	OE2	GLU	2	-33.407	-1.459	3.892	1.00158.04		O
ATOM	16	C	GLU	2	-30.467	-4.826	6.732	1.00158.04		C
ATOM	17	O	GLU	2	-30.361	-6.020	6.460	1.00158.04		O
ATOM	18	N	GLY	3	-30.032	-4.325	7.892	1.00127.91		N
ATOM	19	CA	GLY	3	-29.430	-5.266	8.769	1.00127.91		C
ATOM	20	C	GLY	3	-30.453	-5.759	9.729	1.00127.91		C
ATOM	21	O	GLY	3	-30.950	-5.016	10.573	1.00127.91		O
ATOM	22	N	LYS	4	-30.808	-7.047	9.584	1.00246.79		N
ATOM	23	CA	LYS	4	-31.667	-7.723	10.504	1.00246.79		C
ATOM	24	CB	LYS	4	-33.163	-7.441	10.313	1.00246.79		C
ATOM	25	CG	LYS	4	-33.999	-7.925	11.498	1.00246.79		C
ATOM	26	CD	LYS	4	-33.771	-7.098	12.768	1.00246.79		C
ATOM	27	CE	LYS	4	-32.354	-7.205	13.333	1.00246.79		C
ATOM	28	NZ	LYS	4	-32.189	-6.258	14.457	1.00246.79		N
ATOM	29	C	LYS	4	-31.452	-9.166	10.198	1.00246.79		C
ATOM	30	O	LYS	4	-31.848	-9.634	9.134	1.00246.79		O
ATOM	31	N	ASN	5	-30.784	-9.899	11.107	1.00	98.78	N
ATOM	32	CA	ASN	5	-30.450	-11.276	10.876	1.00	98.78	C
ATOM	33	CB	ASN	5	-29.410	-11.802	11.886	1.00	98.78	C
ATOM	34	CG	ASN	5	-30.033	-11.776	13.276	1.00	98.78	C
ATOM	35	OD1	ASN	5	-30.770	-10.854	13.618	1.00	98.78	O
ATOM	36	ND2	ASN	5	-29.754	-12.828	14.090	1.00	98.78	N
ATOM	37	C	ASN	5	-31.638	-12.192	10.935	1.00	98.78	C
ATOM	38	O	ASN	5	-31.815	-13.043	10.064	1.00	98.78	O
ATOM	39	N	LEU	6	-32.505	-12.023	11.952	1.00165.07		N
ATOM	40	CA	LEU	6	-33.510	-13.011	12.212	1.00165.07		C
ATOM	41	CB	LEU	6	-34.329	-12.680	13.478	1.00165.07		C
ATOM	42	CG	LEU	6	-35.386	-13.730	13.890	1.00165.07		C
ATOM	43	CD1	LEU	6	-36.602	-13.755	12.949	1.00165.07		C

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ATOM	44	CD2	LEU	6	-34.744	-15.116	14.062	1.00165.07	C
ATOM	45	C	LEU	6	-34.439	-13.149	11.057	1.00165.07	C
ATOM	46	O	LEU	6	-34.660	-14.259	10.575	1.00165.07	O
ATOM	47	N	THR	7	-34.994	-12.035	10.553	1.00263.78	N
ATOM	48	CA	THR	7	-35.934	-12.211	9.487	1.00263.78	C
ATOM	49	CB	THR	7	-37.316	-11.727	9.802	1.00263.78	C
ATOM	50	OG1	THR	7	-38.219	-12.124	8.779	1.00263.78	O
ATOM	51	CG2	THR	7	-37.276	-10.196	9.905	1.00263.78	C
ATOM	52	C	THR	7	-35.467	-11.436	8.310	1.00263.78	C
ATOM	53	O	THR	7	-34.930	-10.337	8.431	1.00263.78	O
ATOM	54	N	SER	8	-35.651	-12.035	7.124	1.00151.65	N
ATOM	55	CA	SER	8	-35.246	-11.441	5.891	1.00151.65	C
ATOM	56	CB	SER	8	-35.185	-12.453	4.734	1.00151.65	C
ATOM	57	OG	SER	8	-34.154	-13.403	4.965	1.00151.65	O
ATOM	58	C	SER	8	-36.187	-10.354	5.462	1.00151.65	C
ATOM	59	O	SER	8	-35.785	-9.497	4.678	1.00151.65	O
ATOM	60	N	ILE	9	-37.450	-10.308	5.945	1.00386.20	N
ATOM	61	CA	ILE	9	-38.280	-9.387	5.216	1.00386.20	C
ATOM	62	CB	ILE	9	-39.207	-10.077	4.257	1.00386.20	C
ATOM	63	CG2	ILE	9	-38.343	-10.846	3.244	1.00386.20	C
ATOM	64	CG1	ILE	9	-40.218	-10.968	5.003	1.00386.20	C
ATOM	65	CD1	ILE	9	-39.589	-12.143	5.751	1.00386.20	C
ATOM	66	C	ILE	9	-39.151	-8.460	6.013	1.00386.20	C
ATOM	67	O	ILE	9	-39.474	-8.682	7.181	1.00386.20	O
ATOM	68	N	SER	10	-39.490	-7.341	5.322	1.00228.29	N
ATOM	69	CA	SER	10	-40.446	-6.318	5.641	1.00228.29	C
ATOM	70	CB	SER	10	-39.902	-5.215	6.556	1.00228.29	C
ATOM	71	OG	SER	10	-39.824	-5.725	7.878	1.00228.29	O
ATOM	72	C	SER	10	-40.901	-5.702	4.347	1.00228.29	C
ATOM	73	O	SER	10	-41.132	-4.495	4.258	1.00228.29	O
ATOM	74	N	GLU	11	-41.035	-6.538	3.297	1.00133.40	N
ATOM	75	CA	GLU	11	-41.577	-6.087	2.047	1.00133.40	C
ATOM	76	CB	GLU	11	-41.574	-7.196	0.968	1.00133.40	C
ATOM	77	CG	GLU	11	-42.322	-8.486	1.313	1.00133.40	C
ATOM	78	CD	GLU	11	-42.183	-9.410	0.112	1.00133.40	C
ATOM	79	OE1	GLU	11	-41.541	-8.983	-0.886	1.00133.40	O
ATOM	80	OE2	GLU	11	-42.715	-10.551	0.171	1.00133.40	O
ATOM	81	C	GLU	11	-42.994	-5.775	2.347	1.00133.40	C
ATOM	82	O	GLU	11	-43.539	-4.743	1.960	1.00133.40	O
ATOM	83	N	CYS	12	-43.602	-6.713	3.085	1.00 66.29	N
ATOM	84	CA	CYS	12	-44.937	-6.661	3.568	1.00 66.29	C
ATOM	85	CB	CYS	12	-45.918	-7.555	2.792	1.00 66.29	C
ATOM	86	SG	CYS	12	-46.161	-6.988	1.082	1.00 66.29	S
ATOM	87	C	CYS	12	-44.796	-7.235	4.928	1.00 66.29	C
ATOM	88	O	CYS	12	-43.674	-7.464	5.376	1.00 66.29	O
ATOM	89	N	PHE	13	-45.925	-7.462	5.620	1.00116.63	N
ATOM	90	CA	PHE	13	-45.889	-8.021	6.937	1.00116.63	C
ATOM	91	CB	PHE	13	-44.876	-9.169	7.137	1.00116.63	C
ATOM	92	CG	PHE	13	-45.243	-10.301	6.240	1.00116.63	C
ATOM	93	CD1	PHE	13	-44.861	-10.291	4.918	1.00116.63	C
ATOM	94	CD2	PHE	13	-45.955	-11.376	6.718	1.00116.63	C
ATOM	95	CE1	PHE	13	-45.191	-11.332	4.084	1.00116.63	C
ATOM	96	CE2	PHE	13	-46.288	-12.420	5.888	1.00116.63	C
ATOM	97	CZ	PHE	13	-45.906	-12.400	4.568	1.00116.63	C
ATOM	98	C	PHE	13	-45.531	-6.919	7.874	1.00116.63	C
ATOM	99	O	PHE	13	-44.841	-5.968	7.510	1.00116.63	O
ATOM	100	N	LEU	14	-45.997	-7.032	9.126	1.00241.40	N
ATOM	101	CA	LEU	14	-45.754	-6.012	10.095	1.00241.40	C
ATOM	102	CB	LEU	14	-46.613	-6.183	11.358	1.00241.40	C
ATOM	103	CG	LEU	14	-48.132	-6.138	11.093	1.00241.40	C
ATOM	104	CD1	LEU	14	-48.565	-4.773	10.536	1.00241.40	C
ATOM	105	CD2	LEU	14	-48.590	-7.318	10.220	1.00241.40	C
ATOM	106	C	LEU	14	-44.322	-6.108	10.503	1.00241.40	C
ATOM	107	O	LEU	14	-43.711	-7.173	10.429	1.00241.40	O
ATOM	108	N	LEU	15	-43.742	-4.970	10.932	1.00234.14	N
ATOM	109	CA	LEU	15	-42.379	-4.965	11.358	1.00234.14	C
ATOM	110	CB	LEU	15	-41.894	-3.577	11.807	1.00234.14	C
ATOM	111	CG	LEU	15	-40.425	-3.558	12.274	1.00234.14	C
ATOM	112	CD1	LEU	15	-39.463	-3.913	11.125	1.00234.14	C
ATOM	113	CD2	LEU	15	-40.075	-2.226	12.955	1.00234.14	C
ATOM	114	C	LEU	15	-42.316	-5.864	12.532	1.00234.14	C
ATOM	115	O	LEU	15	-41.418	-6.693	12.595	1.00234.14	O
ATOM	116	N	GLY	16	-43.272	-5.726	13.477	1.00118.55	N
ATOM	117	CA	GLY	16	-43.389	-6.584	14.622	1.00118.55	C
ATOM	118	C	GLY	16	-42.054	-6.683	15.253	1.00118.55	C
ATOM	119	O	GLY	16	-41.660	-5.807	16.014	1.00118.55	O
ATOM	120	N	PHE	17	-41.332	-7.776	14.941	1.00306.51	N

ATOM	121	CA	PHE	17	-39.993	-7.962	15.396	1.00306.51	C
ATOM	122	CB	PHE	17	-39.242	-9.091	14.665	1.00306.51	C
ATOM	123	CG	PHE	17	-39.282	-8.788	13.206	1.00306.51	C
ATOM	124	CD1	PHE	17	-38.354	-7.963	12.613	1.00306.51	C
ATOM	125	CD2	PHE	17	-40.273	-9.330	12.427	1.00306.51	C
ATOM	126	CE1	PHE	17	-38.406	-7.687	11.268	1.00306.51	C
ATOM	127	CE2	PHE	17	-40.328	-9.057	11.082	1.00306.51	C
ATOM	128	CZ	PHE	17	-39.397	-8.237	10.495	1.00306.51	C
ATOM	129	C	PHE	17	-39.249	-6.699	15.117	1.00306.51	C
ATOM	130	O	PHE	17	-39.586	-5.951	14.200	1.00306.51	O
ATOM	131	N	SER	18	-38.211	-6.470	15.938	1.00253.69	N
ATOM	132	CA	SER	18	-37.323	-5.343	15.973	1.00253.69	C
ATOM	133	CB	SER	18	-36.832	-4.873	14.590	1.00253.69	C
ATOM	134	OG	SER	18	-37.827	-4.097	13.940	1.00253.69	O
ATOM	135	C	SER	18	-37.946	-4.162	16.643	1.00253.69	C
ATOM	136	O	SER	18	-37.292	-3.132	16.786	1.00253.69	O
ATOM	137	N	GLU	19	-39.198	-4.281	17.124	1.00126.08	N
ATOM	138	CA	GLU	19	-39.789	-3.164	17.800	1.00126.08	C
ATOM	139	CB	GLU	19	-40.325	-2.071	16.857	1.00126.08	C
ATOM	140	CG	GLU	19	-39.237	-1.335	16.077	1.00126.08	C
ATOM	141	CD	GLU	19	-39.913	-0.295	15.196	1.00126.08	C
ATOM	142	OE1	GLU	19	-41.159	-0.142	15.301	1.00126.08	O
ATOM	143	OE2	GLU	19	-39.186	0.362	14.402	1.00126.08	O
ATOM	144	C	GLU	19	-40.974	-3.659	18.554	1.00126.08	C
ATOM	145	O	GLU	19	-41.497	-4.735	18.284	1.00126.08	O
ATOM	146	N	GLN	20	-41.436	-2.889	19.550	1.00315.11	N
ATOM	147	CA	GLN	20	-42.623	-3.332	20.209	1.00315.11	C
ATOM	148	CB	GLN	20	-42.810	-2.766	21.624	1.00315.11	C
ATOM	149	CG	GLN	20	-41.826	-3.360	22.631	1.00315.11	C
ATOM	150	CD	GLN	20	-42.241	-4.805	22.878	1.00315.11	C
ATOM	151	OE1	GLN	20	-43.271	-5.263	22.384	1.00315.11	O
ATOM	152	NE2	GLN	20	-41.424	-5.546	23.672	1.00315.11	N
ATOM	153	C	GLN	20	-43.762	-2.880	19.366	1.00315.11	C
ATOM	154	O	GLN	20	-43.695	-1.843	18.710	1.00315.11	O
ATOM	155	N	LEU	21	-44.846	-3.668	19.337	1.00365.93	N
ATOM	156	CA	LEU	21	-45.942	-3.243	18.533	1.00365.93	C
ATOM	157	CB	LEU	21	-47.013	-4.327	18.290	1.00365.93	C
ATOM	158	CG	LEU	21	-47.536	-5.047	19.550	1.00365.93	C
ATOM	159	CD1	LEU	21	-46.422	-5.852	20.236	1.00365.93	C
ATOM	160	CD2	LEU	21	-48.272	-4.093	20.504	1.00365.93	C
ATOM	161	C	LEU	21	-46.550	-2.079	19.222	1.00365.93	C
ATOM	162	O	LEU	21	-46.369	-1.874	20.420	1.00365.93	O
ATOM	163	N	GLU	22	-47.230	-1.232	18.444	1.00353.20	N
ATOM	164	CA	GLU	22	-47.884	-0.078	18.970	1.00353.20	C
ATOM	165	CB	GLU	22	-48.679	-0.407	20.244	1.00353.20	C
ATOM	166	CG	GLU	22	-49.743	-1.490	20.034	1.00353.20	C
ATOM	167	CD	GLU	22	-50.928	-0.882	19.304	1.00353.20	C
ATOM	168	OE1	GLU	22	-51.072	0.366	19.375	1.00353.20	O
ATOM	169	OE2	GLU	22	-51.705	-1.649	18.675	1.00353.20	O
ATOM	170	C	GLU	22	-46.837	0.928	19.328	1.00353.20	C
ATOM	171	O	GLU	22	-47.176	2.063	19.636	1.00353.20	O
ATOM	172	N	GLU	23	-45.544	0.546	19.270	1.00150.94	N
ATOM	173	CA	GLU	23	-44.423	1.421	19.480	1.00150.94	C
ATOM	174	CB	GLU	23	-43.107	0.654	19.662	1.00150.94	C
ATOM	175	CG	GLU	23	-41.886	1.532	19.900	1.00150.94	C
ATOM	176	CD	GLU	23	-40.695	0.597	20.045	1.00150.94	C
ATOM	177	OE1	GLU	23	-40.860	-0.484	20.671	1.00150.94	O
ATOM	178	OE2	GLU	23	-39.605	0.951	19.525	1.00150.94	O
ATOM	179	C	GLU	23	-44.305	2.230	18.242	1.00150.94	C
ATOM	180	O	GLU	23	-43.926	3.399	18.258	1.00150.94	O
ATOM	181	N	GLN	24	-44.650	1.584	17.120	1.00147.31	N
ATOM	182	CA	GLN	24	-44.596	2.222	15.849	1.00147.31	C
ATOM	183	CB	GLN	24	-45.136	1.334	14.715	1.00147.31	C
ATOM	184	CG	GLN	24	-44.246	0.140	14.363	1.00147.31	C
ATOM	185	CD	GLN	24	-43.122	0.648	13.475	1.00147.31	C
ATOM	186	OE1	GLN	24	-42.776	0.021	12.475	1.00147.31	O
ATOM	187	NE2	GLN	24	-42.537	1.818	13.848	1.00147.31	N
ATOM	188	C	GLN	24	-45.507	3.385	15.964	1.00147.31	C
ATOM	189	O	GLN	24	-45.239	4.450	15.414	1.00147.31	O
ATOM	190	N	LYS	25	-46.600	3.215	16.725	1.00167.60	N
ATOM	191	CA	LYS	25	-47.556	4.275	16.800	1.00167.60	C
ATOM	192	CB	LYS	25	-48.804	3.940	17.631	1.00167.60	C
ATOM	193	CG	LYS	25	-49.683	2.913	16.914	1.00167.60	C
ATOM	194	CD	LYS	25	-50.946	2.504	17.671	1.00167.60	C
ATOM	195	CE	LYS	25	-51.808	1.495	16.903	1.00167.60	C
ATOM	196	NZ	LYS	25	-53.040	1.173	17.661	1.00167.60	N
ATOM	197	C	LYS	25	-46.908	5.516	17.321	1.00167.60	C

ATOM	198	O	LYS	25	-47.244	6.593	16.837	1.00167.60	O
ATOM	199	N	PRO	26	-46.017	5.488	18.270	1.00186.26	N
ATOM	200	CA	PRO	26	-45.435	6.744	18.623	1.00186.26	C
ATOM	201	CD	PRO	26	-46.165	4.652	19.443	1.00186.26	C
ATOM	202	CB	PRO	26	-44.689	6.516	19.933	1.00186.26	C
ATOM	203	CG	PRO	26	-45.536	5.429	20.613	1.00186.26	C
ATOM	204	C	PRO	26	-44.633	7.341	17.520	1.00186.26	C
ATOM	205	O	PRO	26	-44.617	8.564	17.401	1.00186.26	O
ATOM	206	N	LEU	27	-43.963	6.521	16.693	1.00164.80	N
ATOM	207	CA	LEU	27	-43.181	7.139	15.669	1.00164.80	C
ATOM	208	CB	LEU	27	-42.386	6.133	14.826	1.00164.80	C
ATOM	209	CG	LEU	27	-41.321	5.374	15.633	1.00164.80	C
ATOM	210	CD1	LEU	27	-41.961	4.427	16.655	1.00164.80	C
ATOM	211	CD2	LEU	27	-40.309	4.681	14.711	1.00164.80	C
ATOM	212	C	LEU	27	-44.106	7.847	14.765	1.00164.80	C
ATOM	213	O	LEU	27	-43.903	9.007	14.411	1.00164.80	O
ATOM	214	N	PHE	28	-45.172	7.160	14.347	1.00181.02	N
ATOM	215	CA	PHE	28	-45.966	7.887	13.430	1.00181.02	C
ATOM	216	CB	PHE	28	-46.263	7.196	12.114	1.00181.02	C
ATOM	217	CG	PHE	28	-44.912	7.486	11.510	1.00181.02	C
ATOM	218	CD1	PHE	28	-43.763	6.846	11.917	1.00181.02	C
ATOM	219	CD2	PHE	28	-44.750	8.458	10.565	1.00181.02	C
ATOM	220	CE1	PHE	28	-42.525	7.113	11.377	1.00181.02	C
ATOM	221	CE2	PHE	28	-43.527	8.746	10.006	1.00181.02	C
ATOM	222	CZ	PHE	28	-42.402	8.065	10.397	1.00181.02	C
ATOM	223	C	PHE	28	-46.924	8.873	14.012	1.00181.02	C
ATOM	224	O	PHE	28	-47.352	9.800	13.325	1.00181.02	O
ATOM	225	N	GLY	29	-47.318	8.705	15.286	1.00 63.00	N
ATOM	226	CA	GLY	29	-48.138	9.730	15.856	1.00 63.00	C
ATOM	227	C	GLY	29	-47.306	10.971	15.796	1.00 63.00	C
ATOM	228	O	GLY	29	-47.805	12.061	15.512	1.00 63.00	O
ATOM	229	N	SER	30	-45.993	10.816	16.045	1.00 95.47	N
ATOM	230	CA	SER	30	-45.092	11.927	16.033	1.00 95.47	C
ATOM	231	CB	SER	30	-43.646	11.516	16.353	1.00 95.47	C
ATOM	232	OG	SER	30	-42.801	12.656	16.322	1.00 95.47	O
ATOM	233	C	SER	30	-45.093	12.547	14.670	1.00 95.47	C
ATOM	234	O	SER	30	-45.203	13.765	14.536	1.00 95.47	O
ATOM	235	N	PHE	31	-44.996	11.723	13.610	1.00172.19	N
ATOM	236	CA	PHE	31	-44.946	12.286	12.293	1.00172.19	C
ATOM	237	CB	PHE	31	-44.507	11.312	11.201	1.00172.19	C
ATOM	238	CG	PHE	31	-43.032	11.294	11.394	1.00172.19	C
ATOM	239	CD1	PHE	31	-42.254	12.230	10.757	1.00172.19	C
ATOM	240	CD2	PHE	31	-42.430	10.380	12.226	1.00172.19	C
ATOM	241	CE1	PHE	31	-40.891	12.248	10.928	1.00172.19	C
ATOM	242	CE2	PHE	31	-41.066	10.391	12.399	1.00172.19	C
ATOM	243	CZ	PHE	31	-40.293	11.325	11.751	1.00172.19	C
ATOM	244	C	PHE	31	-46.232	12.967	11.959	1.00172.19	C
ATOM	245	O	PHE	31	-46.246	13.947	11.219	1.00172.19	O
ATOM	246	N	LEU	32	-47.365	12.465	12.470	1.00102.78	N
ATOM	247	CA	LEU	32	-48.587	13.137	12.143	1.00102.78	C
ATOM	248	CB	LEU	32	-49.823	12.443	12.742	1.00102.78	C
ATOM	249	CG	LEU	32	-51.148	13.150	12.397	1.00102.78	C
ATOM	250	CD1	LEU	32	-51.416	13.142	10.884	1.00102.78	C
ATOM	251	CD2	LEU	32	-52.315	12.561	13.206	1.00102.78	C
ATOM	252	C	LEU	32	-48.550	14.544	12.672	1.00102.78	C
ATOM	253	O	LEU	32	-48.857	15.489	11.948	1.00102.78	O
ATOM	254	N	PHE	33	-48.140	14.738	13.942	1.00130.93	N
ATOM	255	CA	PHE	33	-48.180	16.067	14.494	1.00130.93	C
ATOM	256	CB	PHE	33	-47.695	16.168	15.952	1.00130.93	C
ATOM	257	CG	PHE	33	-48.576	15.389	16.863	1.00130.93	C
ATOM	258	CD1	PHE	33	-49.768	15.910	17.310	1.00130.93	C
ATOM	259	CD2	PHE	33	-48.205	14.128	17.267	1.00130.93	C
ATOM	260	CE1	PHE	33	-50.574	15.182	18.153	1.00130.93	C
ATOM	261	CE2	PHE	33	-49.006	13.396	18.110	1.00130.93	C
ATOM	262	CZ	PHE	33	-50.195	13.923	18.554	1.00130.93	C
ATOM	263	C	PHE	33	-47.247	16.940	13.733	1.00130.93	C
ATOM	264	O	PHE	33	-47.608	18.042	13.326	1.00130.93	O
ATOM	265	N	MET	34	-46.019	16.446	13.505	1.00134.78	N
ATOM	266	CA	MET	34	-45.003	17.254	12.906	1.00134.78	C
ATOM	267	CB	MET	34	-43.650	16.528	12.811	1.00134.78	C
ATOM	268	CG	MET	34	-43.017	16.242	14.176	1.00134.78	C
ATOM	269	SD	MET	34	-42.514	17.725	15.102	1.00134.78	S
ATOM	270	CE	MET	34	-41.874	16.826	16.545	1.00134.78	C
ATOM	271	C	MET	34	-45.420	17.638	11.538	1.00134.78	C
ATOM	272	O	MET	34	-45.183	18.754	11.080	1.00134.78	O
ATOM	273	N	TYR	35	-46.037	16.706	10.813	1.00510.11	N
ATOM	274	CA	TYR	35	-46.334	17.063	9.475	1.00510.11	C

ATOM	275	CB	TYR	35	-46.221	15.875	8.527	1.00510.11	C
ATOM	276	CG	TYR	35	-44.734	15.798	8.710	1.00510.11	C
ATOM	277	CD1	TYR	35	-43.921	16.635	7.985	1.00510.11	C
ATOM	278	CD2	TYR	35	-44.141	14.976	9.644	1.00510.11	C
ATOM	279	CE1	TYR	35	-42.559	16.642	8.139	1.00510.11	C
ATOM	280	CE2	TYR	35	-42.771	14.971	9.806	1.00510.11	C
ATOM	281	CZ	TYR	35	-41.985	15.807	9.049	1.00510.11	C
ATOM	282	OH	TYR	35	-40.590	15.838	9.189	1.00510.11	O
ATOM	283	C	TYR	35	-47.453	18.039	9.359	1.00510.11	C
ATOM	284	O	TYR	35	-47.452	18.888	8.471	1.00510.11	O
ATOM	285	N	LEU	36	-48.449	17.976	10.252	1.00289.14	N
ATOM	286	CA	LEU	36	-49.449	18.995	10.142	1.00289.14	C
ATOM	287	CB	LEU	36	-50.593	18.850	11.160	1.00289.14	C
ATOM	288	CG	LEU	36	-51.648	17.795	10.778	1.00289.14	C
ATOM	289	CD1	LEU	36	-51.038	16.403	10.564	1.00289.14	C
ATOM	290	CD2	LEU	36	-52.796	17.785	11.801	1.00289.14	C
ATOM	291	C	LEU	36	-48.814	20.336	10.363	1.00289.14	C
ATOM	292	O	LEU	36	-49.063	21.276	9.610	1.00289.14	O
ATOM	293	N	VAL	37	-47.954	20.463	11.392	1.00227.29	N
ATOM	294	CA	VAL	37	-47.377	21.742	11.707	1.00227.29	C
ATOM	295	CB	VAL	37	-46.600	21.751	12.993	1.00227.29	C
ATOM	296	CG1	VAL	37	-47.555	21.381	14.141	1.00227.29	C
ATOM	297	CG2	VAL	37	-45.381	20.829	12.855	1.00227.29	C
ATOM	298	C	VAL	37	-46.464	22.215	10.615	1.00227.29	C
ATOM	299	O	VAL	37	-46.481	23.392	10.259	1.00227.29	O
ATOM	300	N	THR	38	-45.634	21.320	10.049	1.00123.82	N
ATOM	301	CA	THR	38	-44.687	21.750	9.061	1.00123.82	C
ATOM	302	CB	THR	38	-43.696	20.692	8.687	1.00123.82	C
ATOM	303	OG1	THR	38	-43.082	20.169	9.856	1.00123.82	O
ATOM	304	CG2	THR	38	-42.609	21.379	7.843	1.00123.82	C
ATOM	305	C	THR	38	-45.431	22.190	7.837	1.00123.82	C
ATOM	306	O	THR	38	-45.015	23.118	7.142	1.00123.82	O
ATOM	307	N	VAL	39	-46.550	21.511	7.524	1.00367.98	N
ATOM	308	CA	VAL	39	-47.318	21.863	6.366	1.00367.98	C
ATOM	309	CB	VAL	39	-48.512	20.973	6.169	1.00367.98	C
ATOM	310	CG1	VAL	39	-49.358	21.567	5.031	1.00367.98	C
ATOM	311	CG2	VAL	39	-48.064	19.540	5.879	1.00367.98	C
ATOM	312	C	VAL	39	-47.854	23.251	6.520	1.00367.98	C
ATOM	313	O	VAL	39	-47.726	24.079	5.620	1.00367.98	O
ATOM	314	N	ALA	40	-48.459	23.550	7.683	1.00104.95	N
ATOM	315	CA	ALA	40	-49.107	24.818	7.838	1.00104.95	C
ATOM	316	CB	ALA	40	-49.816	24.957	9.196	1.00104.95	C
ATOM	317	C	ALA	40	-48.122	25.937	7.739	1.00104.95	C
ATOM	318	O	ALA	40	-48.344	26.895	7.003	1.00104.95	O
ATOM	319	N	GLY	41	-46.985	25.835	8.448	1.00 74.16	N
ATOM	320	CA	GLY	41	-46.050	26.924	8.488	1.00 74.16	C
ATOM	321	C	GLY	41	-45.476	27.189	7.132	1.00 74.16	C
ATOM	322	O	GLY	41	-45.325	28.343	6.734	1.00 74.16	O
ATOM	323	N	ASN	42	-45.123	26.124	6.390	1.00184.11	N
ATOM	324	CA	ASN	42	-44.497	26.295	5.110	1.00184.11	C
ATOM	325	CB	ASN	42	-44.004	24.978	4.492	1.00184.11	C
ATOM	326	CG	ASN	42	-42.784	24.529	5.283	1.00184.11	C
ATOM	327	OD1	ASN	42	-41.885	25.320	5.564	1.00184.11	O
ATOM	328	ND2	ASN	42	-42.751	23.222	5.654	1.00184.11	N
ATOM	329	C	ASN	42	-45.470	26.916	4.168	1.00184.11	C
ATOM	330	O	ASN	42	-45.101	27.745	3.338	1.00184.11	O
ATOM	331	N	LEU	43	-46.747	26.515	4.270	1.00294.30	N
ATOM	332	CA	LEU	43	-47.758	27.054	3.414	1.00294.30	C
ATOM	333	CB	LEU	43	-49.149	26.455	3.685	1.00294.30	C
ATOM	334	CG	LEU	43	-49.242	24.944	3.409	1.00294.30	C
ATOM	335	CD1	LEU	43	-50.655	24.414	3.702	1.00294.30	C
ATOM	336	CD2	LEU	43	-48.759	24.601	1.993	1.00294.30	C
ATOM	337	C	LEU	43	-47.854	28.522	3.691	1.00294.30	C
ATOM	338	O	LEU	43	-47.949	29.325	2.768	1.00294.30	O
ATOM	339	N	LEU	44	-47.816	28.927	4.975	1.00176.93	N
ATOM	340	CA	LEU	44	-47.943	30.326	5.269	1.00176.93	C
ATOM	341	CB	LEU	44	-47.946	30.664	6.773	1.00176.93	C
ATOM	342	CG	LEU	44	-49.312	30.514	7.473	1.00176.93	C
ATOM	343	CD1	LEU	44	-50.283	31.615	7.023	1.00176.93	C
ATOM	344	CD2	LEU	44	-49.912	29.117	7.285	1.00176.93	C
ATOM	345	C	LEU	44	-46.813	31.071	4.653	1.00176.93	C
ATOM	346	O	LEU	44	-47.011	32.136	4.070	1.00176.93	O
ATOM	347	N	ILE	45	-45.587	30.539	4.768	1.00267.43	N
ATOM	348	CA	ILE	45	-44.472	31.238	4.219	1.00267.43	C
ATOM	349	CB	ILE	45	-43.146	30.706	4.697	1.00267.43	C
ATOM	350	CG2	ILE	45	-43.069	30.983	6.206	1.00267.43	C
ATOM	351	CG1	ILE	45	-42.943	29.229	4.338	1.00267.43	C

ATOM	352	CD1	ILE	45	-41.593	28.704	4.827	1.00267.43	C
ATOM	353	C	ILE	45	-44.568	31.287	2.722	1.00267.43	C
ATOM	354	O	ILE	45	-44.303	32.329	2.121	1.00267.43	O
ATOM	355	N	ILE	46	-44.971	30.179	2.072	1.00340.80	N
ATOM	356	CA	ILE	46	-45.040	30.174	0.637	1.00340.80	C
ATOM	357	CB	ILE	46	-45.363	28.821	0.060	1.00340.80	C
ATOM	358	CG2	ILE	46	-44.215	27.869	0.420	1.00340.80	C
ATOM	359	CG1	ILE	46	-46.739	28.325	0.521	1.00340.80	C
ATOM	360	CD1	ILE	46	-47.203	27.057	-0.193	1.00340.80	C
ATOM	361	C	ILE	46	-46.066	31.153	0.145	1.00340.80	C
ATOM	362	O	ILE	46	-45.791	31.922	-0.774	1.00340.80	O
ATOM	363	N	LEU	47	-47.277	31.156	0.739	1.00142.21	N
ATOM	364	CA	LEU	47	-48.325	32.035	0.293	1.00142.21	C
ATOM	365	CB	LEU	47	-49.684	31.763	0.967	1.00142.21	C
ATOM	366	CG	LEU	47	-50.414	30.518	0.421	1.00142.21	C
ATOM	367	CD1	LEU	47	-49.569	29.243	0.563	1.00142.21	C
ATOM	368	CD2	LEU	47	-51.810	30.377	1.052	1.00142.21	C
ATOM	369	C	LEU	47	-47.971	33.470	0.532	1.00142.21	C
ATOM	370	O	LEU	47	-48.203	34.319	-0.326	1.00142.21	O
ATOM	371	N	VAL	48	-47.388	33.782	1.701	1.00 91.77	N
ATOM	372	CA	VAL	48	-47.083	35.140	2.043	1.00 91.77	C
ATOM	373	CB	VAL	48	-46.430	35.228	3.392	1.00 91.77	C
ATOM	374	CG1	VAL	48	-45.873	36.642	3.593	1.00 91.77	C
ATOM	375	CG2	VAL	48	-47.463	34.818	4.454	1.00 91.77	C
ATOM	376	C	VAL	48	-46.138	35.717	1.040	1.00 91.77	C
ATOM	377	O	VAL	48	-46.357	36.815	0.532	1.00 91.77	O
ATOM	378	N	ILE	49	-45.076	34.969	0.700	1.00168.56	N
ATOM	379	CA	ILE	49	-44.056	35.472	-0.170	1.00168.56	C
ATOM	380	CB	ILE	49	-42.950	34.464	-0.340	1.00168.56	C
ATOM	381	CG2	ILE	49	-41.892	35.030	-1.299	1.00168.56	C
ATOM	382	CG1	ILE	49	-42.357	34.105	1.034	1.00168.56	C
ATOM	383	CD1	ILE	49	-41.445	32.881	1.000	1.00168.56	C
ATOM	384	C	ILE	49	-44.656	35.780	-1.506	1.00168.56	C
ATOM	385	O	ILE	49	-44.407	36.841	-2.075	1.00168.56	O
ATOM	386	N	ILE	50	-45.481	34.865	-2.042	1.00 99.61	N
ATOM	387	CA	ILE	50	-46.067	35.081	-3.333	1.00 99.61	C
ATOM	388	CB	ILE	50	-46.849	33.892	-3.813	1.00 99.61	C
ATOM	389	CG2	ILE	50	-47.555	34.286	-5.122	1.00 99.61	C
ATOM	390	CG1	ILE	50	-45.929	32.668	-3.954	1.00 99.61	C
ATOM	391	CD1	ILE	50	-46.686	31.354	-4.139	1.00 99.61	C
ATOM	392	C	ILE	50	-47.009	36.246	-3.277	1.00 99.61	C
ATOM	393	O	ILE	50	-46.987	37.111	-4.151	1.00 99.61	O
ATOM	394	N	THR	51	-47.851	36.306	-2.227	1.00177.02	N
ATOM	395	CA	THR	51	-48.878	37.308	-2.142	1.00177.02	C
ATOM	396	CB	THR	51	-49.746	37.165	-0.923	1.00177.02	C
ATOM	397	OG1	THR	51	-48.966	37.298	0.257	1.00177.02	O
ATOM	398	CG2	THR	51	-50.436	35.791	-0.960	1.00177.02	C
ATOM	399	C	THR	51	-48.287	38.676	-2.097	1.00177.02	C
ATOM	400	O	THR	51	-48.728	39.562	-2.827	1.00177.02	O
ATOM	401	N	ASP	52	-47.262	38.892	-1.251	1.00172.72	N
ATOM	402	CA	ASP	52	-46.744	40.223	-1.145	1.00172.72	C
ATOM	403	CB	ASP	52	-46.227	40.592	0.265	1.00172.72	C
ATOM	404	CG	ASP	52	-45.149	39.635	0.756	1.00172.72	C
ATOM	405	OD1	ASP	52	-44.749	38.708	0.003	1.00172.72	O
ATOM	406	OD2	ASP	52	-44.718	39.826	1.924	1.00172.72	O
ATOM	407	C	ASP	52	-45.702	40.466	-2.193	1.00172.72	C
ATOM	408	O	ASP	52	-44.689	39.776	-2.289	1.00172.72	O
ATOM	409	N	THR	53	-45.957	41.491	-3.028	1.00 71.77	N
ATOM	410	CA	THR	53	-45.100	41.839	-4.122	1.00 71.77	C
ATOM	411	CB	THR	53	-45.643	42.963	-4.955	1.00 71.77	C
ATOM	412	OG1	THR	53	-46.920	42.619	-5.474	1.00 71.77	O
ATOM	413	CG2	THR	53	-44.661	43.229	-6.109	1.00 71.77	C
ATOM	414	C	THR	53	-43.787	42.280	-3.569	1.00 71.77	C
ATOM	415	O	THR	53	-42.737	42.059	-4.169	1.00 71.77	O
ATOM	416	N	GLN	54	-43.821	42.911	-2.382	1.00376.32	N
ATOM	417	CA	GLN	54	-42.654	43.476	-1.770	1.00376.32	C
ATOM	418	CB	GLN	54	-42.960	44.172	-0.431	1.00376.32	C
ATOM	419	CG	GLN	54	-43.461	43.228	0.663	1.00376.32	C
ATOM	420	CD	GLN	54	-43.712	44.057	1.916	1.00376.32	C
ATOM	421	OE1	GLN	54	-44.171	43.545	2.937	1.00376.32	O
ATOM	422	NE2	GLN	54	-43.413	45.380	1.832	1.00376.32	N
ATOM	423	C	GLN	54	-41.633	42.418	-1.511	1.00376.32	C
ATOM	424	O	GLN	54	-40.440	42.685	-1.634	1.00376.32	O
ATOM	425	N	LEU	55	-42.038	41.190	-1.142	1.00455.19	N
ATOM	426	CA	LEU	55	-41.000	40.256	-0.801	1.00455.19	C
ATOM	427	CB	LEU	55	-41.465	39.193	0.212	1.00455.19	C
ATOM	428	CG	LEU	55	-41.998	39.776	1.539	1.00455.19	C

ATOM	429	CD1	LEU	55	-42.314	38.660	2.552	1.00455.19	C
ATOM	430	CD2	LEU	55	-41.066	40.861	2.103	1.00455.19	C
ATOM	431	C	LEU	55	-40.534	39.515	-2.027	1.00455.19	C
ATOM	432	O	LEU	55	-40.839	38.336	-2.189	1.00455.19	O
ATOM	433	N	HIS	56	-39.737	40.154	-2.913	1.00282.13	N
ATOM	434	CA	HIS	56	-39.291	39.408	-4.059	1.00282.13	C
ATOM	435	ND1	HIS	56	-42.270	40.032	-6.382	1.00282.13	N
ATOM	436	CG	HIS	56	-41.397	39.515	-5.450	1.00282.13	C
ATOM	437	CB	HIS	56	-39.940	39.862	-5.376	1.00282.13	C
ATOM	438	NE2	HIS	56	-43.450	38.640	-5.111	1.00282.13	N
ATOM	439	CD2	HIS	56	-42.135	38.667	-4.682	1.00282.13	C
ATOM	440	CE1	HIS	56	-43.482	39.475	-6.134	1.00282.13	C
ATOM	441	C	HIS	56	-37.817	39.572	-4.203	1.00282.13	C
ATOM	442	O	HIS	56	-37.307	39.772	-5.306	1.00282.13	O
ATOM	443	N	THR	57	-37.076	39.454	-3.090	1.00184.32	N
ATOM	444	CA	THR	57	-35.662	39.593	-3.222	1.00184.32	C
ATOM	445	CB	THR	57	-34.969	40.145	-2.010	1.00184.32	C
ATOM	446	OG1	THR	57	-35.070	39.239	-0.924	1.00184.32	O
ATOM	447	CG2	THR	57	-35.621	41.488	-1.644	1.00184.32	C
ATOM	448	C	THR	57	-35.127	38.228	-3.473	1.00184.32	C
ATOM	449	O	THR	57	-35.866	37.247	-3.429	1.00184.32	O
ATOM	450	N	PRO	58	-33.863	38.125	-3.758	1.00505.30	N
ATOM	451	CA	PRO	58	-33.304	36.830	-3.978	1.00505.30	C
ATOM	452	CD	PRO	58	-33.116	39.173	-4.435	1.00505.30	C
ATOM	453	CB	PRO	58	-31.875	37.076	-4.456	1.00505.30	C
ATOM	454	CG	PRO	58	-31.963	38.448	-5.154	1.00505.30	C
ATOM	455	C	PRO	58	-33.424	36.060	-2.704	1.00505.30	C
ATOM	456	O	PRO	58	-33.543	34.839	-2.766	1.00505.30	O
ATOM	457	N	MET	59	-33.389	36.757	-1.548	1.00411.23	N
ATOM	458	CA	MET	59	-33.477	36.144	-0.248	1.00411.23	C
ATOM	459	CB	MET	59	-33.315	37.161	0.894	1.00411.23	C
ATOM	460	CG	MET	59	-31.943	37.837	0.923	1.00411.23	C
ATOM	461	SD	MET	59	-31.769	39.125	2.194	1.00411.23	S
ATOM	462	CE	MET	59	-31.862	37.981	3.601	1.00411.23	C
ATOM	463	C	MET	59	-34.830	35.527	-0.087	1.00411.23	C
ATOM	464	O	MET	59	-34.974	34.415	0.421	1.00411.23	O
ATOM	465	N	TYR	60	-35.871	36.251	-0.526	1.00102.91	N
ATOM	466	CA	TYR	60	-37.208	35.759	-0.390	1.00102.91	C
ATOM	467	CB	TYR	60	-38.299	36.780	-0.760	1.00102.91	C
ATOM	468	CG	TYR	60	-38.329	37.798	0.329	1.00102.91	C
ATOM	469	CD1	TYR	60	-39.117	37.603	1.441	1.00102.91	C
ATOM	470	CD2	TYR	60	-37.568	38.940	0.254	1.00102.91	C
ATOM	471	CE1	TYR	60	-39.147	38.532	2.454	1.00102.91	C
ATOM	472	CE2	TYR	60	-37.593	39.875	1.262	1.00102.91	C
ATOM	473	CZ	TYR	60	-38.383	39.672	2.366	1.00102.91	C
ATOM	474	OH	TYR	60	-38.413	40.629	3.403	1.00102.91	O
ATOM	475	C	TYR	60	-37.365	34.541	-1.245	1.00102.91	C
ATOM	476	O	TYR	60	-38.109	33.632	-0.883	1.00102.91	O
ATOM	477	N	PHE	61	-36.712	34.514	-2.427	1.00170.31	N
ATOM	478	CA	PHE	61	-36.789	33.373	-3.301	1.00170.31	C
ATOM	479	CB	PHE	61	-36.061	33.574	-4.641	1.00170.31	C
ATOM	480	CG	PHE	61	-36.960	34.337	-5.555	1.00170.31	C
ATOM	481	CD1	PHE	61	-37.035	35.711	-5.514	1.00170.31	C
ATOM	482	CD2	PHE	61	-37.748	33.655	-6.454	1.00170.31	C
ATOM	483	CE1	PHE	61	-37.875	36.387	-6.370	1.00170.31	C
ATOM	484	CE2	PHE	61	-38.589	34.325	-7.310	1.00170.31	C
ATOM	485	CZ	PHE	61	-38.651	35.696	-7.270	1.00170.31	C
ATOM	486	C	PHE	61	-36.169	32.185	-2.638	1.00170.31	C
ATOM	487	O	PHE	61	-36.735	31.093	-2.642	1.00170.31	O
ATOM	488	N	PHE	62	-34.993	32.384	-2.025	1.00343.80	N
ATOM	489	CA	PHE	62	-34.271	31.336	-1.367	1.00343.80	C
ATOM	490	CB	PHE	62	-33.039	31.902	-0.630	1.00343.80	C
ATOM	491	CG	PHE	62	-32.654	30.955	0.457	1.00343.80	C
ATOM	492	CD1	PHE	62	-31.848	29.874	0.209	1.00343.80	C
ATOM	493	CD2	PHE	62	-33.101	31.160	1.746	1.00343.80	C
ATOM	494	CE1	PHE	62	-31.517	29.021	1.235	1.00343.80	C
ATOM	495	CE2	PHE	62	-32.770	30.304	2.769	1.00343.80	C
ATOM	496	CZ	PHE	62	-31.970	29.222	2.512	1.00343.80	C
ATOM	497	C	PHE	62	-35.142	30.737	-0.323	1.00343.80	C
ATOM	498	O	PHE	62	-35.236	29.517	-0.201	1.00343.80	O
ATOM	499	N	LEU	63	-35.790	31.597	0.475	1.00328.84	N
ATOM	500	CA	LEU	63	-36.604	31.110	1.540	1.00328.84	C
ATOM	501	CB	LEU	63	-37.231	32.225	2.380	1.00328.84	C
ATOM	502	CG	LEU	63	-38.096	31.651	3.508	1.00328.84	C
ATOM	503	CD1	LEU	63	-37.234	30.871	4.510	1.00328.84	C
ATOM	504	CD2	LEU	63	-38.960	32.732	4.165	1.00328.84	C
ATOM	505	C	LEU	63	-37.740	30.338	0.959	1.00328.84	C

ATOM	506	O	LEU	63	-38.145	29.319	1.512	1.00328.84	O
ATOM	507	N	ALA	64	-38.303	30.827	-0.162	1.00 86.28	N
ATOM	508	CA	ALA	64	-39.426	30.169	-0.758	1.00 86.28	C
ATOM	509	CB	ALA	64	-39.971	30.922	-1.982	1.00 86.28	C
ATOM	510	C	ALA	64	-39.024	28.805	-1.221	1.00 86.28	C
ATOM	511	O	ALA	64	-39.762	27.844	-1.022	1.00 86.28	O
ATOM	512	N	ASN	65	-37.847	28.662	-1.861	1.00204.31	N
ATOM	513	CA	ASN	65	-37.549	27.350	-2.355	1.00204.31	C
ATOM	514	CB	ASN	65	-36.412	27.251	-3.381	1.00204.31	C
ATOM	515	CG	ASN	65	-35.107	27.112	-2.651	1.00204.31	C
ATOM	516	OD1	ASN	65	-34.716	25.992	-2.327	1.00204.31	O
ATOM	517	ND2	ASN	65	-34.420	28.255	-2.395	1.00204.31	N
ATOM	518	C	ASN	65	-37.245	26.469	-1.181	1.00204.31	C
ATOM	519	O	ASN	65	-37.507	25.270	-1.211	1.00204.31	O
ATOM	520	N	LEU	66	-36.657	27.047	-0.115	1.00277.01	N
ATOM	521	CA	LEU	66	-36.339	26.319	1.078	1.00277.01	C
ATOM	522	CB	LEU	66	-35.544	27.203	2.061	1.00277.01	C
ATOM	523	CG	LEU	66	-35.126	26.541	3.385	1.00277.01	C
ATOM	524	CD1	LEU	66	-34.103	27.415	4.119	1.00277.01	C
ATOM	525	CD2	LEU	66	-36.334	26.257	4.284	1.00277.01	C
ATOM	526	C	LEU	66	-37.637	25.847	1.677	1.00277.01	C
ATOM	527	O	LEU	66	-37.724	24.719	2.159	1.00277.01	O
ATOM	528	N	SER	67	-38.688	26.697	1.652	1.00 99.33	N
ATOM	529	CA	SER	67	-39.972	26.344	2.202	1.00 99.33	C
ATOM	530	CB	SER	67	-40.987	27.500	2.213	1.00 99.33	C
ATOM	531	OG	SER	67	-41.468	27.757	0.904	1.00 99.33	O
ATOM	532	C	SER	67	-40.580	25.266	1.359	1.00 99.33	C
ATOM	533	O	SER	67	-41.318	24.418	1.856	1.00 99.33	O
ATOM	534	N	LEU	68	-40.311	25.304	0.041	1.00132.83	N
ATOM	535	CA	LEU	68	-40.831	24.332	-0.874	1.00132.83	C
ATOM	536	CB	LEU	68	-40.468	24.685	-2.333	1.00132.83	C
ATOM	537	CG	LEU	68	-41.155	23.862	-3.444	1.00132.83	C
ATOM	538	CD1	LEU	68	-40.686	24.330	-4.830	1.00132.83	C
ATOM	539	CD2	LEU	68	-40.987	22.342	-3.265	1.00132.83	C
ATOM	540	C	LEU	68	-40.203	23.026	-0.518	1.00132.83	C
ATOM	541	O	LEU	68	-40.873	21.996	-0.489	1.00132.83	O
ATOM	542	N	ALA	69	-38.887	23.044	-0.227	1.00100.23	N
ATOM	543	CA	ALA	69	-38.159	21.851	0.099	1.00100.23	C
ATOM	544	CB	ALA	69	-36.670	22.133	0.369	1.00100.23	C
ATOM	545	C	ALA	69	-38.756	21.272	1.346	1.00100.23	C
ATOM	546	O	ALA	69	-38.923	20.061	1.460	1.00100.23	O
ATOM	547	N	ASP	70	-39.093	22.133	2.323	1.00140.31	N
ATOM	548	CA	ASP	70	-39.682	21.688	3.555	1.00140.31	C
ATOM	549	CB	ASP	70	-39.900	22.841	4.550	1.00140.31	C
ATOM	550	CG	ASP	70	-38.554	23.390	4.998	1.00140.31	C
ATOM	551	OD1	ASP	70	-37.539	22.650	4.897	1.00140.31	O
ATOM	552	OD2	ASP	70	-38.527	24.566	5.448	1.00140.31	O
ATOM	553	C	ASP	70	-41.045	21.137	3.263	1.00140.31	C
ATOM	554	O	ASP	70	-41.459	20.138	3.849	1.00140.31	O
ATOM	555	N	ALA	71	-41.791	21.803	2.361	1.00101.09	N
ATOM	556	CA	ALA	71	-43.125	21.388	2.029	1.00101.09	C
ATOM	557	CB	ALA	71	-43.815	22.342	1.036	1.00101.09	C
ATOM	558	C	ALA	71	-43.074	20.039	1.394	1.00101.09	C
ATOM	559	O	ALA	71	-43.909	19.183	1.684	1.00101.09	O
ATOM	560	N	CYS	72	-42.096	19.817	0.495	1.00132.02	N
ATOM	561	CA	CYS	72	-42.005	18.553	-0.173	1.00132.02	C
ATOM	562	CB	CYS	72	-40.986	18.502	-1.332	1.00132.02	C
ATOM	563	SG	CYS	72	-39.252	18.361	-0.810	1.00132.02	S
ATOM	564	C	CYS	72	-41.631	17.513	0.830	1.00132.02	C
ATOM	565	O	CYS	72	-42.036	16.362	0.714	1.00132.02	O
ATOM	566	N	PHE	73	-40.814	17.860	1.839	1.00133.93	N
ATOM	567	CA	PHE	73	-40.473	16.841	2.785	1.00133.93	C
ATOM	568	CB	PHE	73	-39.470	17.302	3.853	1.00133.93	C
ATOM	569	CG	PHE	73	-39.123	16.079	4.626	1.00133.93	C
ATOM	570	CD1	PHE	73	-38.117	15.247	4.192	1.00133.93	C
ATOM	571	CD2	PHE	73	-39.808	15.757	5.773	1.00133.93	C
ATOM	572	CE1	PHE	73	-37.794	14.112	4.896	1.00133.93	C
ATOM	573	CE2	PHE	73	-39.488	14.623	6.480	1.00133.93	C
ATOM	574	CZ	PHE	73	-38.480	13.798	6.044	1.00133.93	C
ATOM	575	C	PHE	73	-41.720	16.441	3.490	1.00133.93	C
ATOM	576	O	PHE	73	-42.022	15.256	3.634	1.00133.93	O
ATOM	577	N	VAL	74	-42.486	17.448	3.939	1.00111.19	N
ATOM	578	CA	VAL	74	-43.667	17.181	4.686	1.00111.19	C
ATOM	579	CB	VAL	74	-44.329	18.415	5.180	1.00111.19	C
ATOM	580	CG1	VAL	74	-45.574	17.992	5.965	1.00111.19	C
ATOM	581	CG2	VAL	74	-43.299	19.201	6.000	1.00111.19	C
ATOM	582	C	VAL	74	-44.658	16.442	3.860	1.00111.19	C

ATOM	583	O	VAL	74	-45.215	15.463	4.338	1.00111.19	O
ATOM	584	N	SER	75	-44.947	16.914	2.632	1.00154.67	N
ATOM	585	CA	SER	75	-45.942	16.308	1.783	1.00154.67	C
ATOM	586	CB	SER	75	-46.428	17.267	0.685	1.00154.67	C
ATOM	587	OG	SER	75	-47.061	18.394	1.272	1.00154.67	O
ATOM	588	C	SER	75	-45.464	15.065	1.091	1.00154.67	C
ATOM	589	O	SER	75	-46.160	14.055	1.063	1.00154.67	O
ATOM	590	N	THR	76	-44.298	15.127	0.430	1.00104.12	N
ATOM	591	CA	THR	76	-43.861	14.007	-0.353	1.00104.12	C
ATOM	592	CB	THR	76	-42.770	14.362	-1.312	1.00104.12	C
ATOM	593	OG1	THR	76	-43.176	15.441	-2.142	1.00104.12	O
ATOM	594	CG2	THR	76	-42.527	13.123	-2.183	1.00104.12	C
ATOM	595	C	THR	76	-43.385	12.831	0.454	1.00104.12	C
ATOM	596	O	THR	76	-43.876	11.719	0.279	1.00104.12	O
ATOM	597	N	THR	77	-42.371	13.037	1.320	1.00124.19	N
ATOM	598	CA	THR	77	-41.793	11.960	2.083	1.00124.19	C
ATOM	599	CB	THR	77	-40.419	12.276	2.594	1.00124.19	C
ATOM	600	OG1	THR	77	-39.547	12.570	1.515	1.00124.19	O
ATOM	601	CG2	THR	77	-39.897	11.053	3.367	1.00124.19	C
ATOM	602	C	THR	77	-42.593	11.588	3.285	1.00124.19	C
ATOM	603	O	THR	77	-42.817	10.410	3.562	1.00124.19	O
ATOM	604	N	VAL	78	-43.058	12.610	4.023	1.00196.14	N
ATOM	605	CA	VAL	78	-43.628	12.380	5.315	1.00196.14	C
ATOM	606	CB	VAL	78	-43.978	13.623	6.044	1.00196.14	C
ATOM	607	CG1	VAL	78	-44.656	13.194	7.355	1.00196.14	C
ATOM	608	CG2	VAL	78	-42.685	14.431	6.220	1.00196.14	C
ATOM	609	C	VAL	78	-44.859	11.534	5.273	1.00196.14	C
ATOM	610	O	VAL	78	-45.065	10.743	6.190	1.00196.14	O
ATOM	611	N	PRO	79	-45.726	11.651	4.317	1.00196.86	N
ATOM	612	CA	PRO	79	-46.896	10.840	4.377	1.00196.86	C
ATOM	613	CD	PRO	79	-45.973	12.883	3.614	1.00196.86	C
ATOM	614	CB	PRO	79	-47.859	11.387	3.329	1.00196.86	C
ATOM	615	CG	PRO	79	-47.470	12.871	3.259	1.00196.86	C
ATOM	616	C	PRO	79	-46.568	9.401	4.226	1.00196.86	C
ATOM	617	O	PRO	79	-47.251	8.579	4.832	1.00196.86	O
ATOM	618	N	LYS	80	-45.549	9.067	3.414	1.00231.11	N
ATOM	619	CA	LYS	80	-45.255	7.679	3.254	1.00231.11	C
ATOM	620	CB	LYS	80	-44.301	7.349	2.089	1.00231.11	C
ATOM	621	CG	LYS	80	-42.830	7.144	2.445	1.00231.11	C
ATOM	622	CD	LYS	80	-42.554	5.775	3.077	1.00231.11	C
ATOM	623	CE	LYS	80	-43.622	4.725	2.742	1.00231.11	C
ATOM	624	NZ	LYS	80	-43.649	4.444	1.286	1.00231.11	N
ATOM	625	C	LYS	80	-44.676	7.195	4.543	1.00231.11	C
ATOM	626	O	LYS	80	-44.939	6.070	4.957	1.00231.11	O
ATOM	627	N	MET	81	-43.864	8.040	5.214	1.00210.81	N
ATOM	628	CA	MET	81	-43.257	7.663	6.458	1.00210.81	C
ATOM	629	CB	MET	81	-42.206	8.669	6.967	1.00210.81	C
ATOM	630	CG	MET	81	-42.752	10.005	7.457	1.00210.81	C
ATOM	631	SD	MET	81	-41.468	11.213	7.902	1.00210.81	S
ATOM	632	CE	MET	81	-40.509	10.066	8.934	1.00210.81	C
ATOM	633	C	MET	81	-44.344	7.469	7.468	1.00210.81	C
ATOM	634	O	MET	81	-44.250	6.607	8.342	1.00210.81	O
ATOM	635	N	LEU	82	-45.405	8.290	7.380	1.00208.82	N
ATOM	636	CA	LEU	82	-46.514	8.158	8.280	1.00208.82	C
ATOM	637	CB	LEU	82	-47.563	9.268	8.070	1.00208.82	C
ATOM	638	CG	LEU	82	-48.591	9.429	9.209	1.00208.82	C
ATOM	639	CD1	LEU	82	-49.606	10.528	8.880	1.00208.82	C
ATOM	640	CD2	LEU	82	-49.262	8.108	9.600	1.00208.82	C
ATOM	641	C	LEU	82	-47.139	6.827	8.017	1.00208.82	C
ATOM	642	O	LEU	82	-47.445	6.069	8.937	1.00208.82	O
ATOM	643	N	ALA	83	-47.320	6.499	6.727	1.00 61.79	N
ATOM	644	CA	ALA	83	-47.935	5.263	6.352	1.00 61.79	C
ATOM	645	CB	ALA	83	-48.120	5.122	4.832	1.00 61.79	C
ATOM	646	C	ALA	83	-47.064	4.137	6.814	1.00 61.79	C
ATOM	647	O	ALA	83	-47.556	3.094	7.242	1.00 61.79	O
ATOM	648	N	ASN	84	-45.735	4.333	6.743	1.00 92.12	N
ATOM	649	CA	ASN	84	-44.792	3.308	7.077	1.00 92.12	C
ATOM	650	CB	ASN	84	-43.341	3.820	7.035	1.00 92.12	C
ATOM	651	CG	ASN	84	-42.396	2.666	7.332	1.00 92.12	C
ATOM	652	OD1	ASN	84	-42.823	1.541	7.589	1.00 92.12	O
ATOM	653	ND2	ASN	84	-41.070	2.965	7.311	1.00 92.12	N
ATOM	654	C	ASN	84	-45.059	2.864	8.477	1.00 92.12	C
ATOM	655	O	ASN	84	-45.100	1.669	8.750	1.00 92.12	O
ATOM	656	N	ILE	85	-45.194	3.803	9.425	1.00161.84	N
ATOM	657	CA	ILE	85	-45.554	3.389	10.749	1.00161.84	C
ATOM	658	CB	ILE	85	-45.208	4.309	11.862	1.00161.84	C
ATOM	659	CG2	ILE	85	-46.324	4.260	12.917	1.00161.84	C

ATOM	660	CG1	ILE	85	-43.791	3.953	12.352	1.00161.84	C
ATOM	661	CD1	ILE	85	-42.710	4.161	11.292	1.00161.84	C
ATOM	662	C	ILE	85	-46.972	2.942	10.890	1.00161.84	C
ATOM	663	O	ILE	85	-47.237	2.015	11.653	1.00161.84	O
ATOM	664	N	GLN	86	-47.925	3.578	10.183	1.00125.81	N
ATOM	665	CA	GLN	86	-49.306	3.229	10.386	1.00125.81	C
ATOM	666	CB	GLN	86	-50.272	3.972	9.448	1.00125.81	C
ATOM	667	CG	GLN	86	-50.489	5.440	9.811	1.00125.81	C
ATOM	668	CD	GLN	86	-51.471	5.499	10.973	1.00125.81	C
ATOM	669	OE1	GLN	86	-51.973	4.475	11.432	1.00125.81	O
ATOM	670	NE2	GLN	86	-51.757	6.735	11.462	1.00125.81	N
ATOM	671	C	GLN	86	-49.490	1.774	10.116	1.00125.81	C
ATOM	672	O	GLN	86	-50.136	1.078	10.896	1.00125.81	O
ATOM	673	N	ILE	87	-48.918	1.266	9.012	1.00252.87	N
ATOM	674	CA	ILE	87	-49.018	-0.141	8.759	1.00252.87	C
ATOM	675	CB	ILE	87	-49.453	-0.473	7.360	1.00252.87	C
ATOM	676	CG2	ILE	87	-49.338	-1.995	7.177	1.00252.87	C
ATOM	677	CG1	ILE	87	-50.857	0.083	7.071	1.00252.87	C
ATOM	678	CD1	ILE	87	-51.233	0.039	5.588	1.00252.87	C
ATOM	679	C	ILE	87	-47.626	-0.627	8.889	1.00252.87	C
ATOM	680	O	ILE	87	-46.751	-0.142	8.183	1.00252.87	O
ATOM	681	N	GLN	88	-47.369	-1.608	9.774	1.00205.89	N
ATOM	682	CA	GLN	88	-46.003	-1.990	9.980	1.00205.89	C
ATOM	683	CB	GLN	88	-45.829	-3.072	11.060	1.00205.89	C
ATOM	684	CG	GLN	88	-46.177	-2.556	12.458	1.00205.89	C
ATOM	685	CD	GLN	88	-45.980	-3.681	13.459	1.00205.89	C
ATOM	686	OE1	GLN	88	-46.809	-4.582	13.575	1.00205.89	O
ATOM	687	NE2	GLN	88	-44.857	-3.621	14.223	1.00205.89	N
ATOM	688	C	GLN	88	-45.425	-2.473	8.690	1.00205.89	C
ATOM	689	O	GLN	88	-45.855	-3.482	8.134	1.00205.89	O
ATOM	690	N	SER	89	-44.428	-1.705	8.199	1.00127.75	N
ATOM	691	CA	SER	89	-43.726	-1.937	6.968	1.00127.75	C
ATOM	692	CB	SER	89	-43.631	-3.413	6.540	1.00127.75	C
ATOM	693	OG	SER	89	-42.842	-4.141	7.470	1.00127.75	O
ATOM	694	C	SER	89	-44.448	-1.174	5.911	1.00127.75	C
ATOM	695	O	SER	89	-45.636	-0.889	6.042	1.00127.75	O
ATOM	696	N	GLN	90	-43.766	-0.808	4.815	1.00187.90	N
ATOM	697	CA	GLN	90	-44.523	-0.061	3.864	1.00187.90	C
ATOM	698	CB	GLN	90	-43.807	1.119	3.188	1.00187.90	C
ATOM	699	CG	GLN	90	-44.693	1.861	2.192	1.00187.90	C
ATOM	700	CD	GLN	90	-45.836	2.512	2.956	1.00187.90	C
ATOM	701	OE1	GLN	90	-46.806	2.983	2.364	1.00187.90	O
ATOM	702	NE2	GLN	90	-45.725	2.536	4.311	1.00187.90	N
ATOM	703	C	GLN	90	-45.053	-0.978	2.825	1.00187.90	C
ATOM	704	O	GLN	90	-44.330	-1.740	2.184	1.00187.90	O
ATOM	705	N	ALA	91	-46.379	-0.901	2.648	1.00 89.37	N
ATOM	706	CA	ALA	91	-47.093	-1.721	1.724	1.00 89.37	C
ATOM	707	CB	ALA	91	-48.604	-1.439	1.711	1.00 89.37	C
ATOM	708	C	ALA	91	-46.571	-1.408	0.373	1.00 89.37	C
ATOM	709	O	ALA	91	-46.426	-2.291	-0.470	1.00 89.37	O
ATOM	710	N	ILE	92	-46.264	-0.124	0.131	1.00320.34	N
ATOM	711	CA	ILE	92	-45.724	0.189	-1.148	1.00320.34	C
ATOM	712	CB	ILE	92	-45.928	1.618	-1.562	1.00320.34	C
ATOM	713	CG2	ILE	92	-47.444	1.842	-1.673	1.00320.34	C
ATOM	714	CG1	ILE	92	-45.236	2.593	-0.603	1.00320.34	C
ATOM	715	CD1	ILE	92	-45.423	4.057	-0.997	1.00320.34	C
ATOM	716	C	ILE	92	-44.287	-0.131	-0.989	1.00320.34	C
ATOM	717	O	ILE	92	-43.644	0.322	-0.048	1.00320.34	O
ATOM	718	N	SER	93	-43.788	-0.960	-1.920	1.00196.09	N
ATOM	719	CA	SER	93	-42.516	-1.616	-1.943	1.00196.09	C
ATOM	720	CB	SER	93	-42.401	-2.529	-3.188	1.00196.09	C
ATOM	721	OG	SER	93	-41.260	-3.373	-3.141	1.00196.09	O
ATOM	722	C	SER	93	-41.407	-0.611	-1.956	1.00196.09	C
ATOM	723	O	SER	93	-41.484	0.454	-1.347	1.00196.09	O
ATOM	724	N	TYR	94	-40.322	-0.948	-2.668	1.00212.56	N
ATOM	725	CA	TYR	94	-39.131	-0.169	-2.682	1.00212.56	C
ATOM	726	CB	TYR	94	-38.069	-0.697	-3.670	1.00212.56	C
ATOM	727	CG	TYR	94	-38.570	-0.547	-5.069	1.00212.56	C
ATOM	728	CD1	TYR	94	-38.382	0.631	-5.760	1.00212.56	C
ATOM	729	CD2	TYR	94	-39.216	-1.587	-5.697	1.00212.56	C
ATOM	730	CE1	TYR	94	-38.837	0.775	-7.048	1.00212.56	C
ATOM	731	CE2	TYR	94	-39.674	-1.449	-6.987	1.00212.56	C
ATOM	732	CZ	TYR	94	-39.488	-0.266	-7.663	1.00212.56	C
ATOM	733	OH	TYR	94	-39.957	-0.120	-8.986	1.00212.56	O
ATOM	734	C	TYR	94	-39.506	1.208	-3.105	1.00212.56	C
ATOM	735	O	TYR	94	-38.903	2.171	-2.646	1.00212.56	O
ATOM	736	N	SER	95	-40.494	1.341	-4.008	1.00 90.75	N

ATOM	737	CA	SER	95	-40.880	2.630	-4.516	1.00	90.75	C
ATOM	738	CB	SER	95	-42.043	2.555	-5.518	1.00	90.75	C
ATOM	739	OG	SER	95	-41.642	1.833	-6.673	1.00	90.75	O
ATOM	740	C	SER	95	-41.307	3.541	-3.398	1.00	90.75	C
ATOM	741	O	SER	95	-40.948	4.717	-3.391	1.00	90.75	O
ATOM	742	N	GLY	96	-42.080	3.040	-2.416	1.00125.34		N
ATOM	743	CA	GLY	96	-42.507	3.885	-1.335	1.00125.34		C
ATOM	744	C	GLY	96	-41.285	4.361	-0.629	1.00125.34		C
ATOM	745	O	GLY	96	-41.228	5.500	-0.166	1.00125.34		O
ATOM	746	N	CYS	97	-40.280	3.475	-0.488	1.00164.87		N
ATOM	747	CA	CYS	97	-39.061	3.895	0.128	1.00164.87		C
ATOM	748	CB	CYS	97	-38.002	2.817	0.374	1.00164.87		C
ATOM	749	SG	CYS	97	-36.477	3.627	0.948	1.00164.87		S
ATOM	750	C	CYS	97	-38.420	4.880	-0.784	1.00164.87		C
ATOM	751	O	CYS	97	-37.725	5.797	-0.359	1.00164.87		O
ATOM	752	N	LEU	98	-38.622	4.702	-2.093	1.00133.56		N
ATOM	753	CA	LEU	98	-37.997	5.591	-3.010	1.00133.56		C
ATOM	754	CB	LEU	98	-38.382	5.298	-4.472	1.00133.56		C
ATOM	755	CG	LEU	98	-37.987	3.899	-4.978	1.00133.56		C
ATOM	756	CD1	LEU	98	-38.415	3.699	-6.440	1.00133.56		C
ATOM	757	CD2	LEU	98	-36.493	3.620	-4.767	1.00133.56		C
ATOM	758	C	LEU	98	-38.502	6.973	-2.713	1.00133.56		C
ATOM	759	O	LEU	98	-37.713	7.909	-2.629	1.00133.56		O
ATOM	760	N	LEU	99	-39.832	7.134	-2.527	1.00165.68		N
ATOM	761	CA	LEU	99	-40.418	8.428	-2.301	1.00165.68		C
ATOM	762	CB	LEU	99	-41.953	8.385	-2.205	1.00165.68		C
ATOM	763	CG	LEU	99	-42.642	7.912	-3.497	1.00165.68		C
ATOM	764	CD1	LEU	99	-44.171	7.890	-3.337	1.00165.68		C
ATOM	765	CD2	LEU	99	-42.176	8.732	-4.711	1.00165.68		C
ATOM	766	C	LEU	99	-39.943	9.010	-1.011	1.00165.68		C
ATOM	767	O	LEU	99	-39.496	10.157	-0.977	1.00165.68		O
ATOM	768	N	GLN	100	-40.024	8.245	0.096	1.00261.38		N
ATOM	769	CA	GLN	100	-39.618	8.860	1.323	1.00261.38		C
ATOM	770	CB	GLN	100	-40.074	8.169	2.632	1.00261.38		C
ATOM	771	CG	GLN	100	-39.527	6.774	2.912	1.00261.38		C
ATOM	772	CD	GLN	100	-39.935	6.364	4.325	1.00261.38		C
ATOM	773	OE1	GLN	100	-40.039	5.178	4.636	1.00261.38		O
ATOM	774	NE2	GLN	100	-40.157	7.370	5.214	1.00261.38		N
ATOM	775	C	GLN	100	-38.141	9.121	1.335	1.00261.38		C
ATOM	776	O	GLN	100	-37.708	10.194	1.749	1.00261.38		O
ATOM	777	N	LEU	101	-37.313	8.167	0.870	1.00198.52		N
ATOM	778	CA	LEU	101	-35.892	8.374	0.918	1.00198.52		C
ATOM	779	CB	LEU	101	-35.072	7.122	0.531	1.00198.52		C
ATOM	780	CG	LEU	101	-33.549	7.175	0.829	1.00198.52		C
ATOM	781	CD1	LEU	101	-32.871	5.871	0.401	1.00198.52		C
ATOM	782	CD2	LEU	101	-32.815	8.381	0.222	1.00198.52		C
ATOM	783	C	LEU	101	-35.516	9.468	-0.048	1.00198.52		C
ATOM	784	O	LEU	101	-34.788	10.386	0.319	1.00198.52		O
ATOM	785	N	TYR	102	-36.023	9.413	-1.299	1.00168.19		N
ATOM	786	CA	TYR	102	-35.593	10.296	-2.350	1.00168.19		C
ATOM	787	CB	TYR	102	-36.288	10.001	-3.692	1.00168.19		C
ATOM	788	CG	TYR	102	-35.938	11.088	-4.654	1.00168.19		C
ATOM	789	CD1	TYR	102	-34.733	11.081	-5.316	1.00168.19		C
ATOM	790	CD2	TYR	102	-36.823	12.114	-4.903	1.00168.19		C
ATOM	791	CE1	TYR	102	-34.414	12.082	-6.202	1.00168.19		C
ATOM	792	CE2	TYR	102	-36.512	13.120	-5.788	1.00168.19		C
ATOM	793	CZ	TYR	102	-35.302	13.103	-6.438	1.00168.19		C
ATOM	794	OH	TYR	102	-34.974	14.130	-7.348	1.00168.19		O
ATOM	795	C	TYR	102	-35.909	11.701	-2.009	1.00168.19		C
ATOM	796	O	TYR	102	-35.049	12.574	-2.101	1.00168.19		O
ATOM	797	N	PHE	103	-37.153	11.955	-1.585	1.00269.99		N
ATOM	798	CA	PHE	103	-37.518	13.299	-1.293	1.00269.99		C
ATOM	799	CB	PHE	103	-39.021	13.470	-1.063	1.00269.99		C
ATOM	800	CG	PHE	103	-39.601	13.368	-2.430	1.00269.99		C
ATOM	801	CD1	PHE	103	-39.876	12.141	-2.990	1.00269.99		C
ATOM	802	CD2	PHE	103	-39.835	14.507	-3.167	1.00269.99		C
ATOM	803	CE1	PHE	103	-40.406	12.055	-4.256	1.00269.99		C
ATOM	804	CE2	PHE	103	-40.365	14.427	-4.433	1.00269.99		C
ATOM	805	CZ	PHE	103	-40.653	13.198	-4.978	1.00269.99		C
ATOM	806	C	PHE	103	-36.727	13.761	-0.120	1.00269.99		C
ATOM	807	O	PHE	103	-36.261	14.896	-0.100	1.00269.99		O
ATOM	808	N	PHE	104	-36.529	12.877	0.874	1.00193.38		N
ATOM	809	CA	PHE	104	-35.820	13.219	2.073	1.00193.38		C
ATOM	810	CB	PHE	104	-35.683	12.010	3.020	1.00193.38		C
ATOM	811	CG	PHE	104	-34.700	12.345	4.090	1.00193.38		C
ATOM	812	CD1	PHE	104	-35.092	12.978	5.247	1.00193.38		C
ATOM	813	CD2	PHE	104	-33.372	12.016	3.934	1.00193.38		C

ATOM	814	CE1	PHE	104	-34.174	13.280	6.225	1.00193.38	C
ATOM	815	CE2	PHE	104	-32.450	12.315	4.907	1.00193.38	C
ATOM	816	CZ	PHE	104	-32.851	12.950	6.056	1.00193.38	C
ATOM	817	C	PHE	104	-34.428	13.668	1.739	1.00193.38	C
ATOM	818	O	PHE	104	-33.987	14.724	2.185	1.00193.38	O
ATOM	819	N	MET	105	-33.683	12.872	0.953	1.00200.51	N
ATOM	820	CA	MET	105	-32.321	13.216	0.657	1.00200.51	C
ATOM	821	CB	MET	105	-31.595	12.119	-0.135	1.00200.51	C
ATOM	822	CG	MET	105	-30.090	12.358	-0.260	1.00200.51	C
ATOM	823	SD	MET	105	-29.168	12.160	1.294	1.00200.51	S
ATOM	824	CE	MET	105	-29.452	10.371	1.427	1.00200.51	C
ATOM	825	C	MET	105	-32.280	14.462	-0.166	1.00200.51	C
ATOM	826	O	MET	105	-31.453	15.345	0.062	1.00200.51	O
ATOM	827	N	LEU	106	-33.195	14.560	-1.147	1.00170.95	N
ATOM	828	CA	LEU	106	-33.224	15.666	-2.056	1.00170.95	C
ATOM	829	CB	LEU	106	-34.346	15.485	-3.105	1.00170.95	C
ATOM	830	CG	LEU	106	-34.412	16.503	-4.265	1.00170.95	C
ATOM	831	CD1	LEU	106	-35.575	16.156	-5.206	1.00170.95	C
ATOM	832	CD2	LEU	106	-34.511	17.961	-3.787	1.00170.95	C
ATOM	833	C	LEU	106	-33.485	16.897	-1.251	1.00170.95	C
ATOM	834	O	LEU	106	-32.831	17.922	-1.434	1.00170.95	O
ATOM	835	N	PHE	107	-34.441	16.807	-0.311	1.00196.82	N
ATOM	836	CA	PHE	107	-34.824	17.917	0.505	1.00196.82	C
ATOM	837	CB	PHE	107	-35.944	17.572	1.494	1.00196.82	C
ATOM	838	CG	PHE	107	-35.885	18.630	2.535	1.00196.82	C
ATOM	839	CD1	PHE	107	-36.309	19.908	2.270	1.00196.82	C
ATOM	840	CD2	PHE	107	-35.398	18.332	3.787	1.00196.82	C
ATOM	841	CE1	PHE	107	-36.250	20.881	3.240	1.00196.82	C
ATOM	842	CE2	PHE	107	-35.339	19.303	4.758	1.00196.82	C
ATOM	843	CZ	PHE	107	-35.763	20.580	4.488	1.00196.82	C
ATOM	844	C	PHE	107	-33.677	18.397	1.325	1.00196.82	C
ATOM	845	O	PHE	107	-33.414	19.596	1.372	1.00196.82	O
ATOM	846	N	VAL	108	-32.969	17.474	1.998	1.00131.02	N
ATOM	847	CA	VAL	108	-31.885	17.856	2.853	1.00131.02	C
ATOM	848	CB	VAL	108	-31.268	16.688	3.568	1.00131.02	C
ATOM	849	CG1	VAL	108	-30.076	17.195	4.400	1.00131.02	C
ATOM	850	CG2	VAL	108	-32.359	15.995	4.402	1.00131.02	C
ATOM	851	C	VAL	108	-30.814	18.495	2.022	1.00131.02	C
ATOM	852	O	VAL	108	-30.256	19.522	2.405	1.00131.02	O
ATOM	853	N	MET	109	-30.503	17.893	0.857	1.00182.29	N
ATOM	854	CA	MET	109	-29.456	18.385	0.003	1.00182.29	C
ATOM	855	CB	MET	109	-29.280	17.545	-1.278	1.00182.29	C
ATOM	856	CG	MET	109	-28.869	16.092	-1.046	1.00182.29	C
ATOM	857	SD	MET	109	-28.665	15.117	-2.569	1.00182.29	S
ATOM	858	CE	MET	109	-27.912	13.684	-1.743	1.00182.29	C
ATOM	859	C	MET	109	-29.810	19.756	-0.473	1.00182.29	C
ATOM	860	O	MET	109	-29.006	20.680	-0.381	1.00182.29	O
ATOM	861	N	LEU	110	-31.055	19.926	-0.946	1.00157.77	N
ATOM	862	CA	LEU	110	-31.527	21.156	-1.517	1.00157.77	C
ATOM	863	CB	LEU	110	-32.998	21.042	-1.956	1.00157.77	C
ATOM	864	CG	LEU	110	-33.600	22.331	-2.543	1.00157.77	C
ATOM	865	CD1	LEU	110	-32.952	22.712	-3.882	1.00157.77	C
ATOM	866	CD2	LEU	110	-35.128	22.228	-2.631	1.00157.77	C
ATOM	867	C	LEU	110	-31.465	22.232	-0.484	1.00157.77	C
ATOM	868	O	LEU	110	-31.080	23.363	-0.774	1.00157.77	O
ATOM	869	N	GLU	111	-31.847	21.911	0.763	1.00107.74	N
ATOM	870	CA	GLU	111	-31.864	22.931	1.764	1.00107.74	C
ATOM	871	CB	GLU	111	-32.378	22.430	3.124	1.00107.74	C
ATOM	872	CG	GLU	111	-32.553	23.545	4.156	1.00107.74	C
ATOM	873	CD	GLU	111	-33.062	22.920	5.448	1.00107.74	C
ATOM	874	OE1	GLU	111	-32.398	21.972	5.946	1.00107.74	O
ATOM	875	OE2	GLU	111	-34.122	23.379	5.951	1.00107.74	O
ATOM	876	C	GLU	111	-30.476	23.444	1.974	1.00107.74	C
ATOM	877	O	GLU	111	-30.260	24.651	1.938	1.00107.74	O
ATOM	878	N	ALA	112	-29.498	22.534	2.153	1.00 50.43	N
ATOM	879	CA	ALA	112	-28.135	22.897	2.427	1.00 50.43	C
ATOM	880	CB	ALA	112	-27.228	21.674	2.655	1.00 50.43	C
ATOM	881	C	ALA	112	-27.571	23.659	1.267	1.00 50.43	C
ATOM	882	O	ALA	112	-26.854	24.639	1.463	1.00 50.43	O
ATOM	883	N	PHE	113	-27.869	23.228	0.025	1.00121.89	N
ATOM	884	CA	PHE	113	-27.353	23.923	-1.121	1.00121.89	C
ATOM	885	CB	PHE	113	-27.694	23.273	-2.479	1.00121.89	C
ATOM	886	CG	PHE	113	-26.770	22.127	-2.730	1.00121.89	C
ATOM	887	CD1	PHE	113	-27.075	20.853	-2.312	1.00121.89	C
ATOM	888	CD2	PHE	113	-25.585	22.334	-3.397	1.00121.89	C
ATOM	889	CE1	PHE	113	-26.216	19.806	-2.552	1.00121.89	C
ATOM	890	CE2	PHE	113	-24.720	21.292	-3.641	1.00121.89	C

ATOM	891	CZ	PHE	113	-25.035	20.024	-3.218	1.00121.89	C
ATOM	892	C	PHE	113	-27.912	25.308	-1.139	1.00121.89	C
ATOM	893	O	PHE	113	-27.187	26.270	-1.383	1.00121.89	O
ATOM	894	N	LEU	114	-29.223	25.454	-0.878	1.00150.44	N
ATOM	895	CA	LEU	114	-29.790	26.770	-0.894	1.00150.44	C
ATOM	896	CB	LEU	114	-31.306	26.825	-0.695	1.00150.44	C
ATOM	897	CG	LEU	114	-32.092	26.649	-1.995	1.00150.44	C
ATOM	898	CD1	LEU	114	-31.679	27.708	-3.027	1.00150.44	C
ATOM	899	CD2	LEU	114	-32.085	25.216	-2.523	1.00150.44	C
ATOM	900	C	LEU	114	-29.164	27.624	0.159	1.00150.44	C
ATOM	901	O	LEU	114	-28.907	28.802	-0.076	1.00150.44	O
ATOM	902	N	LEU	115	-28.898	27.081	1.357	1.00156.59	N
ATOM	903	CA	LEU	115	-28.285	27.919	2.347	1.00156.59	C
ATOM	904	CB	LEU	115	-28.033	27.237	3.708	1.00156.59	C
ATOM	905	CG	LEU	115	-29.256	27.169	4.650	1.00156.59	C
ATOM	906	CD1	LEU	115	-30.389	26.286	4.124	1.00156.59	C
ATOM	907	CD2	LEU	115	-28.830	26.762	6.066	1.00156.59	C
ATOM	908	C	LEU	115	-26.962	28.388	1.817	1.00156.59	C
ATOM	909	O	LEU	115	-26.557	29.524	2.053	1.00156.59	O
ATOM	910	N	ALA	116	-26.237	27.524	1.087	1.00 74.29	N
ATOM	911	CA	ALA	116	-24.959	27.918	0.569	1.00 74.29	C
ATOM	912	CB	ALA	116	-24.241	26.786	-0.186	1.00 74.29	C
ATOM	913	C	ALA	116	-25.140	29.053	-0.393	1.00 74.29	C
ATOM	914	O	ALA	116	-24.352	29.998	-0.399	1.00 74.29	O
ATOM	915	N	VAL	117	-26.188	28.993	-1.238	1.00218.34	N
ATOM	916	CA	VAL	117	-26.371	30.021	-2.221	1.00218.34	C
ATOM	917	CB	VAL	117	-27.495	29.765	-3.191	1.00218.34	C
ATOM	918	CG1	VAL	117	-28.858	30.016	-2.519	1.00218.34	C
ATOM	919	CG2	VAL	117	-27.245	30.645	-4.425	1.00218.34	C
ATOM	920	C	VAL	117	-26.636	31.315	-1.527	1.00218.34	C
ATOM	921	O	VAL	117	-26.172	32.366	-1.966	1.00218.34	O
ATOM	922	N	MET	118	-27.403	31.276	-0.422	1.00231.56	N
ATOM	923	CA	MET	118	-27.707	32.498	0.252	1.00231.56	C
ATOM	924	CB	MET	118	-28.756	32.366	1.373	1.00231.56	C
ATOM	925	CG	MET	118	-28.363	31.514	2.577	1.00231.56	C
ATOM	926	SD	MET	118	-29.665	31.419	3.843	1.00231.56	S
ATOM	927	CE	MET	118	-28.822	30.172	4.856	1.00231.56	C
ATOM	928	C	MET	118	-26.439	33.089	0.782	1.00231.56	C
ATOM	929	O	MET	118	-26.237	34.298	0.700	1.00231.56	O
ATOM	930	N	ALA	119	-25.527	32.250	1.308	1.00 92.96	N
ATOM	931	CA	ALA	119	-24.305	32.778	1.841	1.00 92.96	C
ATOM	932	CB	ALA	119	-23.385	31.690	2.418	1.00 92.96	C
ATOM	933	C	ALA	119	-23.561	33.460	0.732	1.00 92.96	C
ATOM	934	O	ALA	119	-23.023	34.550	0.916	1.00 92.96	O
ATOM	935	N	TYR	120	-23.521	32.831	-0.459	1.00263.66	N
ATOM	936	CA	TYR	120	-22.803	33.368	-1.583	1.00263.66	C
ATOM	937	CB	TYR	120	-22.823	32.419	-2.795	1.00263.66	C
ATOM	938	CG	TYR	120	-22.134	33.104	-3.924	1.00263.66	C
ATOM	939	CD1	TYR	120	-20.764	33.063	-4.042	1.00263.66	C
ATOM	940	CD2	TYR	120	-22.863	33.789	-4.870	1.00263.66	C
ATOM	941	CE1	TYR	120	-20.132	33.695	-5.087	1.00263.66	C
ATOM	942	CE2	TYR	120	-22.237	34.423	-5.916	1.00263.66	C
ATOM	943	CZ	TYR	120	-20.869	34.376	-6.027	1.00263.66	C
ATOM	944	OH	TYR	120	-20.224	35.026	-7.100	1.00263.66	O
ATOM	945	C	TYR	120	-23.420	34.659	-2.027	1.00263.66	C
ATOM	946	O	TYR	120	-22.719	35.647	-2.237	1.00263.66	O
ATOM	947	N	ASP	121	-24.759	34.691	-2.169	1.00246.91	N
ATOM	948	CA	ASP	121	-25.415	35.871	-2.648	1.00246.91	C
ATOM	949	CB	ASP	121	-26.930	35.693	-2.814	1.00246.91	C
ATOM	950	CG	ASP	121	-27.469	36.947	-3.483	1.00246.91	C
ATOM	951	OD1	ASP	121	-26.642	37.791	-3.919	1.00246.91	O
ATOM	952	OD2	ASP	121	-28.717	37.082	-3.561	1.00246.91	O
ATOM	953	C	ASP	121	-25.204	36.968	-1.656	1.00246.91	C
ATOM	954	O	ASP	121	-24.975	38.116	-2.032	1.00246.91	O
ATOM	955	N	CYS	122	-25.266	36.632	-0.355	1.00146.24	N
ATOM	956	CA	CYS	122	-25.116	37.603	0.689	1.00146.24	C
ATOM	957	CB	CYS	122	-25.252	37.003	2.099	1.00146.24	C
ATOM	958	SG	CYS	122	-26.938	36.438	2.476	1.00146.24	S
ATOM	959	C	CYS	122	-23.752	38.191	0.597	1.00146.24	C
ATOM	960	O	CYS	122	-23.568	39.387	0.819	1.00146.24	O
ATOM	961	N	TYR	123	-22.749	37.359	0.272	1.00148.13	N
ATOM	962	CA	TYR	123	-21.419	37.880	0.211	1.00148.13	C
ATOM	963	CB	TYR	123	-20.361	36.826	-0.154	1.00148.13	C
ATOM	964	CG	TYR	123	-19.070	37.556	-0.308	1.00148.13	C
ATOM	965	CD1	TYR	123	-18.285	37.822	0.789	1.00148.13	C
ATOM	966	CD2	TYR	123	-18.648	37.978	-1.550	1.00148.13	C
ATOM	967	CE1	TYR	123	-17.095	38.496	0.650	1.00148.13	C

ATOM	968	CE2	TYR	123	-17.459	38.653	-1.695	1.00148.13	C
ATOM	969	CZ	TYR	123	-16.680	38.910	-0.592	1.00148.13	C
ATOM	970	OH	TYR	123	-15.457	39.600	-0.732	1.00148.13	O
ATOM	971	C	TYR	123	-21.353	38.920	-0.860	1.00148.13	C
ATOM	972	O	TYR	123	-20.823	40.007	-0.638	1.00148.13	O
ATOM	973	N	VAL	124	-21.903	38.629	-2.054	1.00153.78	N
ATOM	974	CA	VAL	124	-21.778	39.578	-3.122	1.00153.78	C
ATOM	975	CB	VAL	124	-22.301	39.114	-4.452	1.00153.78	C
ATOM	976	CG1	VAL	124	-23.835	39.042	-4.407	1.00153.78	C
ATOM	977	CG2	VAL	124	-21.767	40.085	-5.520	1.00153.78	C
ATOM	978	C	VAL	124	-22.507	40.836	-2.768	1.00153.78	C
ATOM	979	O	VAL	124	-22.035	41.932	-3.063	1.00153.78	O
ATOM	980	N	ALA	125	-23.688	40.711	-2.133	1.00103.61	N
ATOM	981	CA	ALA	125	-24.481	41.865	-1.819	1.00103.61	C
ATOM	982	CB	ALA	125	-25.824	41.503	-1.157	1.00103.61	C
ATOM	983	C	ALA	125	-23.751	42.747	-0.860	1.00103.61	C
ATOM	984	O	ALA	125	-23.710	43.964	-1.032	1.00103.61	O
ATOM	985	N	ILE	126	-23.149	42.149	0.182	1.00192.34	N
ATOM	986	CA	ILE	126	-22.475	42.912	1.193	1.00192.34	C
ATOM	987	CB	ILE	126	-22.046	42.065	2.364	1.00192.34	C
ATOM	988	CG2	ILE	126	-20.987	41.056	1.895	1.00192.34	C
ATOM	989	CG1	ILE	126	-21.586	42.951	3.530	1.00192.34	C
ATOM	990	CD1	ILE	126	-22.727	43.689	4.223	1.00192.34	C
ATOM	991	C	ILE	126	-21.262	43.590	0.621	1.00192.34	C
ATOM	992	O	ILE	126	-20.972	44.739	0.946	1.00192.34	O
ATOM	993	N	CYS	127	-20.486	42.871	-0.207	1.00149.40	N
ATOM	994	CA	CYS	127	-19.272	43.386	-0.774	1.00149.40	C
ATOM	995	CB	CYS	127	-18.410	42.271	-1.377	1.00149.40	C
ATOM	996	SG	CYS	127	-16.773	42.875	-1.860	1.00149.40	S
ATOM	997	C	CYS	127	-19.542	44.405	-1.845	1.00149.40	C
ATOM	998	O	CYS	127	-18.782	45.354	-2.022	1.00149.40	O
ATOM	999	N	HIS	128	-20.648	44.227	-2.584	1.00148.34	N
ATOM	1000	CA	HIS	128	-20.991	44.983	-3.756	1.00148.34	C
ATOM	1001	ND1	HIS	128	-21.914	44.730	-6.810	1.00148.34	N
ATOM	1002	CG	HIS	128	-22.685	44.946	-5.691	1.00148.34	C
ATOM	1003	CB	HIS	128	-22.338	44.489	-4.313	1.00148.34	C
ATOM	1004	NE2	HIS	128	-23.741	45.798	-7.491	1.00148.34	N
ATOM	1005	CD2	HIS	128	-23.795	45.598	-6.125	1.00148.34	C
ATOM	1006	CE1	HIS	128	-22.593	45.260	-7.859	1.00148.34	C
ATOM	1007	C	HIS	128	-21.033	46.459	-3.479	1.00148.34	C
ATOM	1008	O	HIS	128	-21.354	46.926	-2.387	1.00148.34	O
ATOM	1009	N	PRO	129	-20.641	47.188	-4.498	1.00292.17	N
ATOM	1010	CA	PRO	129	-20.597	48.627	-4.486	1.00292.17	C
ATOM	1011	CD	PRO	129	-19.869	46.609	-5.583	1.00292.17	C
ATOM	1012	CB	PRO	129	-20.029	49.027	-5.845	1.00292.17	C
ATOM	1013	CG	PRO	129	-19.188	47.805	-6.267	1.00292.17	C
ATOM	1014	C	PRO	129	-21.960	49.165	-4.212	1.00292.17	C
ATOM	1015	O	PRO	129	-22.080	50.148	-3.482	1.00292.17	O
ATOM	1016	N	LEU	130	-22.999	48.553	-4.810	1.00187.08	N
ATOM	1017	CA	LEU	130	-24.338	48.919	-4.469	1.00187.08	C
ATOM	1018	CB	LEU	130	-25.356	48.706	-5.604	1.00187.08	C
ATOM	1019	CG	LEU	130	-25.113	49.604	-6.828	1.00187.08	C
ATOM	1020	CD1	LEU	130	-26.160	49.350	-7.925	1.00187.08	C
ATOM	1021	CD2	LEU	130	-25.016	51.085	-6.428	1.00187.08	C
ATOM	1022	C	LEU	130	-24.638	47.930	-3.408	1.00187.08	C
ATOM	1023	O	LEU	130	-24.999	46.791	-3.698	1.00187.08	O
ATOM	1024	N	HIS	131	-24.494	48.356	-2.144	1.00283.79	N
ATOM	1025	CA	HIS	131	-24.544	47.441	-1.048	1.00283.79	C
ATOM	1026	ND1	HIS	131	-24.367	50.562	0.079	1.00283.79	N
ATOM	1027	CG	HIS	131	-24.705	49.346	0.628	1.00283.79	C
ATOM	1028	CB	HIS	131	-24.036	48.053	0.271	1.00283.79	C
ATOM	1029	NE2	HIS	131	-26.006	50.955	1.529	1.00283.79	N
ATOM	1030	CD2	HIS	131	-25.708	49.604	1.512	1.00283.79	C
ATOM	1031	CE1	HIS	131	-25.174	51.490	0.653	1.00283.79	C
ATOM	1032	C	HIS	131	-25.909	46.885	-0.817	1.00283.79	C
ATOM	1033	O	HIS	131	-26.928	47.559	-0.956	1.00283.79	O
ATOM	1034	N	TYR	132	-25.908	45.587	-0.463	1.00319.82	N
ATOM	1035	CA	TYR	132	-27.017	44.775	-0.069	1.00319.82	C
ATOM	1036	CB	TYR	132	-27.826	45.393	1.080	1.00319.82	C
ATOM	1037	CG	TYR	132	-26.884	45.487	2.229	1.00319.82	C
ATOM	1038	CD1	TYR	132	-26.560	44.358	2.941	1.00319.82	C
ATOM	1039	CD2	TYR	132	-26.293	46.682	2.571	1.00319.82	C
ATOM	1040	CE1	TYR	132	-25.689	44.424	4.001	1.00319.82	C
ATOM	1041	CE2	TYR	132	-25.420	46.754	3.630	1.00319.82	C
ATOM	1042	CZ	TYR	132	-25.120	45.624	4.350	1.00319.82	C
ATOM	1043	OH	TYR	132	-24.225	45.698	5.439	1.00319.82	O
ATOM	1044	C	TYR	132	-27.935	44.501	-1.209	1.00319.82	C

ATOM	1045	O	TYR	132	-28.870	43.712	-1.074	1.00319.82	O
ATOM	1046	N	ILE	133	-27.670	45.079	-2.389	1.00 83.12	N
ATOM	1047	CA	ILE	133	-28.527	44.721	-3.470	1.00 83.12	C
ATOM	1048	CB	ILE	133	-28.598	45.748	-4.560	1.00 83.12	C
ATOM	1049	CG2	ILE	133	-29.417	45.151	-5.718	1.00 83.12	C
ATOM	1050	CG1	ILE	133	-29.171	47.066	-4.014	1.00 83.12	C
ATOM	1051	CD1	ILE	133	-29.005	48.243	-4.974	1.00 83.12	C
ATOM	1052	C	ILE	133	-27.901	43.500	-4.035	1.00 83.12	C
ATOM	1053	O	ILE	133	-26.706	43.483	-4.325	1.00 83.12	O
ATOM	1054	N	LEU	134	-28.689	42.423	-4.171	1.00105.63	N
ATOM	1055	CA	LEU	134	-28.108	41.236	-4.701	1.00105.63	C
ATOM	1056	CB	LEU	134	-29.044	40.020	-4.640	1.00105.63	C
ATOM	1057	CG	LEU	134	-29.548	39.723	-3.213	1.00105.63	C
ATOM	1058	CD1	LEU	134	-28.383	39.465	-2.244	1.00105.63	C
ATOM	1059	CD2	LEU	134	-30.508	40.817	-2.719	1.00105.63	C
ATOM	1060	C	LEU	134	-27.818	41.552	-6.128	1.00105.63	C
ATOM	1061	O	LEU	134	-28.536	42.324	-6.761	1.00105.63	O
ATOM	1062	N	ILE	135	-26.719	40.994	-6.660	1.00134.92	N
ATOM	1063	CA	ILE	135	-26.367	41.252	-8.023	1.00134.92	C
ATOM	1064	CB	ILE	135	-25.066	40.617	-8.431	1.00134.92	C
ATOM	1065	CG2	ILE	135	-25.204	39.089	-8.311	1.00134.92	C
ATOM	1066	CG1	ILE	135	-24.654	41.106	-9.829	1.00134.92	C
ATOM	1067	CD1	ILE	135	-24.294	42.590	-9.876	1.00134.92	C
ATOM	1068	C	ILE	135	-27.457	40.688	-8.873	1.00134.92	C
ATOM	1069	O	ILE	135	-27.829	41.256	-9.899	1.00134.92	O
ATOM	1070	N	MET	136	-27.989	39.532	-8.442	1.00123.17	N
ATOM	1071	CA	MET	136	-28.983	38.783	-9.146	1.00123.17	C
ATOM	1072	CB	MET	136	-29.159	37.385	-8.536	1.00123.17	C
ATOM	1073	CG	MET	136	-29.614	37.442	-7.076	1.00123.17	C
ATOM	1074	SD	MET	136	-29.326	35.918	-6.129	1.00123.17	S
ATOM	1075	CE	MET	136	-30.504	34.919	-7.078	1.00123.17	C
ATOM	1076	C	MET	136	-30.311	39.473	-9.104	1.00123.17	C
ATOM	1077	O	MET	136	-30.703	40.080	-8.109	1.00123.17	O
ATOM	1078	N	SER	137	-31.034	39.405	-10.236	1.00 77.34	N
ATOM	1079	CA	SER	137	-32.355	39.946	-10.336	1.00 77.34	C
ATOM	1080	CB	SER	137	-32.716	40.397	-11.761	1.00 77.34	C
ATOM	1081	OG	SER	137	-32.701	39.282	-12.641	1.00 77.34	O
ATOM	1082	C	SER	137	-33.275	38.828	-9.978	1.00 77.34	C
ATOM	1083	O	SER	137	-32.831	37.730	-9.645	1.00 77.34	O
ATOM	1084	N	PRO	138	-34.551	39.075	-10.004	1.00265.88	N
ATOM	1085	CA	PRO	138	-35.456	37.988	-9.793	1.00265.88	C
ATOM	1086	CD	PRO	138	-35.092	40.336	-9.523	1.00265.88	C
ATOM	1087	CB	PRO	138	-36.821	38.624	-9.558	1.00265.88	C
ATOM	1088	CG	PRO	138	-36.473	39.990	-8.938	1.00265.88	C
ATOM	1089	C	PRO	138	-35.327	37.209	-11.054	1.00265.88	C
ATOM	1090	O	PRO	138	-34.762	37.728	-12.004	1.00265.88	O
ATOM	1091	N	GLY	139	-35.729	35.942	-11.107	1.00393.48	N
ATOM	1092	CA	GLY	139	-35.566	35.275	-12.363	1.00393.48	C
ATOM	1093	C	GLY	139	-34.190	34.704	-12.321	1.00393.48	C
ATOM	1094	O	GLY	139	-33.961	33.540	-12.639	1.00393.48	O
ATOM	1095	N	LEU	140	-33.219	35.544	-11.930	1.00128.06	N
ATOM	1096	CA	LEU	140	-31.910	35.022	-11.720	1.00128.06	C
ATOM	1097	CB	LEU	140	-30.865	36.109	-11.423	1.00128.06	C
ATOM	1098	CG	LEU	140	-30.647	37.072	-12.606	1.00128.06	C
ATOM	1099	CD1	LEU	140	-29.574	38.126	-12.291	1.00128.06	C
ATOM	1100	CD2	LEU	140	-30.349	36.303	-13.903	1.00128.06	C
ATOM	1101	C	LEU	140	-32.057	34.177	-10.503	1.00128.06	C
ATOM	1102	O	LEU	140	-31.559	33.056	-10.432	1.00128.06	O
ATOM	1103	N	CYS	141	-32.821	34.705	-9.527	1.00104.23	N
ATOM	1104	CA	CYS	141	-33.041	34.032	-8.283	1.00104.23	C
ATOM	1105	CB	CYS	141	-33.976	34.831	-7.361	1.00104.23	C
ATOM	1106	SG	CYS	141	-35.567	35.201	-8.158	1.00104.23	S
ATOM	1107	C	CYS	141	-33.692	32.721	-8.586	1.00104.23	C
ATOM	1108	O	CYS	141	-33.317	31.690	-8.027	1.00104.23	O
ATOM	1109	N	ILE	142	-34.686	32.723	-9.493	1.00125.02	N
ATOM	1110	CA	ILE	142	-35.360	31.500	-9.818	1.00125.02	C
ATOM	1111	CB	ILE	142	-36.615	31.684	-10.628	1.00125.02	C
ATOM	1112	CG2	ILE	142	-37.622	32.451	-9.756	1.00125.02	C
ATOM	1113	CG1	ILE	142	-36.335	32.350	-11.977	1.00125.02	C
ATOM	1114	CD1	ILE	142	-37.551	32.363	-12.899	1.00125.02	C
ATOM	1115	C	ILE	142	-34.410	30.572	-10.501	1.00125.02	C
ATOM	1116	O	ILE	142	-34.475	29.358	-10.311	1.00125.02	O
ATOM	1117	N	PHE	143	-33.510	31.120	-11.335	1.00107.63	N
ATOM	1118	CA	PHE	143	-32.587	30.281	-12.044	1.00107.63	C
ATOM	1119	CB	PHE	143	-31.685	31.072	-13.008	1.00107.63	C
ATOM	1120	CG	PHE	143	-31.001	30.081	-13.886	1.00107.63	C
ATOM	1121	CD1	PHE	143	-29.845	29.453	-13.483	1.00107.63	C

ATOM	1122	CD2	PHE	143	-31.527	29.773	-15.119	1.00107.63	C
ATOM	1123	CE1	PHE	143	-29.222	28.538	-14.300	1.00107.63	C
ATOM	1124	CE2	PHE	143	-30.909	28.859	-15.940	1.00107.63	C
ATOM	1125	CZ	PHE	143	-29.753	28.238	-15.532	1.00107.63	C
ATOM	1126	C	PHE	143	-31.705	29.577	-11.055	1.00107.63	C
ATOM	1127	O	PHE	143	-31.490	28.371	-11.155	1.00107.63	O
ATOM	1128	N	LEU	144	-31.176	30.311	-10.054	1.00124.90	N
ATOM	1129	CA	LEU	144	-30.304	29.697	-9.091	1.00124.90	C
ATOM	1130	CB	LEU	144	-29.700	30.682	-8.074	1.00124.90	C
ATOM	1131	CG	LEU	144	-28.545	31.526	-8.644	1.00124.90	C
ATOM	1132	CD1	LEU	144	-27.315	30.650	-8.931	1.00124.90	C
ATOM	1133	CD2	LEU	144	-28.977	32.339	-9.871	1.00124.90	C
ATOM	1134	C	LEU	144	-31.061	28.657	-8.340	1.00124.90	C
ATOM	1135	O	LEU	144	-30.539	27.581	-8.048	1.00124.90	O
ATOM	1136	N	VAL	145	-32.327	28.949	-8.006	1.00 53.16	N
ATOM	1137	CA	VAL	145	-33.093	27.986	-7.282	1.00 53.16	C
ATOM	1138	CB	VAL	145	-34.487	28.453	-6.992	1.00 53.16	C
ATOM	1139	CG1	VAL	145	-35.270	27.283	-6.375	1.00 53.16	C
ATOM	1140	CG2	VAL	145	-34.414	29.695	-6.088	1.00 53.16	C
ATOM	1141	C	VAL	145	-33.205	26.743	-8.112	1.00 53.16	C
ATOM	1142	O	VAL	145	-33.022	25.637	-7.608	1.00 53.16	O
ATOM	1143	N	SER	146	-33.487	26.890	-9.421	1.00 39.25	N
ATOM	1144	CA	SER	146	-33.678	25.735	-10.255	1.00 39.25	C
ATOM	1145	CB	SER	146	-34.064	26.079	-11.707	1.00 39.25	C
ATOM	1146	OG	SER	146	-32.962	26.654	-12.392	1.00 39.25	O
ATOM	1147	C	SER	146	-32.405	24.953	-10.305	1.00 39.25	C
ATOM	1148	O	SER	146	-32.421	23.723	-10.303	1.00 39.25	O
ATOM	1149	N	ALA	147	-31.260	25.656	-10.332	1.00 55.37	N
ATOM	1150	CA	ALA	147	-29.992	24.993	-10.429	1.00 55.37	C
ATOM	1151	CB	ALA	147	-28.810	25.978	-10.471	1.00 55.37	C
ATOM	1152	C	ALA	147	-29.819	24.133	-9.224	1.00 55.37	C
ATOM	1153	O	ALA	147	-29.299	23.022	-9.305	1.00 55.37	O
ATOM	1154	N	SER	148	-30.264	24.636	-8.064	1.00107.41	N
ATOM	1155	CA	SER	148	-30.101	23.927	-6.832	1.00107.41	C
ATOM	1156	CB	SER	148	-30.712	24.701	-5.657	1.00107.41	C
ATOM	1157	OG	SER	148	-30.531	23.969	-4.460	1.00107.41	O
ATOM	1158	C	SER	148	-30.781	22.600	-6.908	1.00107.41	C
ATOM	1159	O	SER	148	-30.250	21.588	-6.451	1.00107.41	O
ATOM	1160	N	TRP	149	-31.987	22.570	-7.487	1.00 80.85	N
ATOM	1161	CA	TRP	149	-32.737	21.357	-7.562	1.00 80.85	C
ATOM	1162	CB	TRP	149	-34.177	21.586	-8.047	1.00 80.85	C
ATOM	1163	CG	TRP	149	-35.027	22.263	-6.997	1.00 80.85	C
ATOM	1164	CD2	TRP	149	-35.952	21.562	-6.152	1.00 80.85	C
ATOM	1165	CD1	TRP	149	-35.101	23.579	-6.641	1.00 80.85	C
ATOM	1166	NE1	TRP	149	-36.015	23.740	-5.625	1.00 80.85	N
ATOM	1167	CE2	TRP	149	-36.547	22.506	-5.317	1.00 80.85	C
ATOM	1168	CE3	TRP	149	-36.282	20.239	-6.086	1.00 80.85	C
ATOM	1169	CZ2	TRP	149	-37.488	22.139	-4.397	1.00 80.85	C
ATOM	1170	CZ3	TRP	149	-37.225	19.870	-5.153	1.00 80.85	C
ATOM	1171	CH2	TRP	149	-37.815	20.803	-4.326	1.00 80.85	C
ATOM	1172	C	TRP	149	-32.059	20.351	-8.442	1.00 80.85	C
ATOM	1173	O	TRP	149	-32.024	19.165	-8.118	1.00 80.85	O
ATOM	1174	N	ILE	150	-31.495	20.782	-9.583	1.00 99.90	N
ATOM	1175	CA	ILE	150	-30.899	19.810	-10.453	1.00 99.90	C
ATOM	1176	CB	ILE	150	-30.387	20.387	-11.744	1.00 99.90	C
ATOM	1177	CG2	ILE	150	-31.587	20.995	-12.485	1.00 99.90	C
ATOM	1178	CG1	ILE	150	-29.247	21.389	-11.507	1.00 99.90	C
ATOM	1179	CD1	ILE	150	-28.509	21.779	-12.788	1.00 99.90	C
ATOM	1180	C	ILE	150	-29.750	19.170	-9.748	1.00 99.90	C
ATOM	1181	O	ILE	150	-29.591	17.950	-9.772	1.00 99.90	O
ATOM	1182	N	MET	151	-28.927	19.987	-9.074	1.00163.86	N
ATOM	1183	CA	MET	151	-27.763	19.464	-8.431	1.00163.86	C
ATOM	1184	CB	MET	151	-26.952	20.569	-7.730	1.00163.86	C
ATOM	1185	CG	MET	151	-25.627	20.089	-7.141	1.00163.86	C
ATOM	1186	SD	MET	151	-24.369	19.664	-8.383	1.00163.86	S
ATOM	1187	CE	MET	151	-23.038	19.396	-7.176	1.00163.86	C
ATOM	1188	C	MET	151	-28.184	18.473	-7.392	1.00163.86	C
ATOM	1189	O	MET	151	-27.645	17.370	-7.325	1.00163.86	O
ATOM	1190	N	ASN	152	-29.194	18.821	-6.574	1.00117.46	N
ATOM	1191	CA	ASN	152	-29.577	17.933	-5.513	1.00117.46	C
ATOM	1192	CB	ASN	152	-30.584	18.517	-4.496	1.00117.46	C
ATOM	1193	CG	ASN	152	-31.914	18.863	-5.148	1.00117.46	C
ATOM	1194	OD1	ASN	152	-32.586	18.022	-5.741	1.00117.46	O
ATOM	1195	ND2	ASN	152	-32.326	20.149	-5.000	1.00117.46	N
ATOM	1196	C	ASN	152	-30.129	16.665	-6.079	1.00117.46	C
ATOM	1197	O	ASN	152	-29.926	15.590	-5.516	1.00117.46	O
ATOM	1198	N	ALA	153	-30.846	16.752	-7.212	1.00 46.71	N

ATOM	1199	CA	ALA	153	-31.458	15.588	-7.781	1.00	46.71	C
ATOM	1200	CB	ALA	153	-32.294	15.904	-9.031	1.00	46.71	C
ATOM	1201	C	ALA	153	-30.398	14.620	-8.181	1.00	46.71	C
ATOM	1202	O	ALA	153	-30.520	13.421	-7.936	1.00	46.71	O
ATOM	1203	N	LEU	154	-29.304	15.119	-8.783	1.00188.11		N
ATOM	1204	CA	LEU	154	-28.319	14.189	-9.241	1.00188.11		C
ATOM	1205	CB	LEU	154	-27.117	14.823	-9.964	1.00188.11		C
ATOM	1206	CG	LEU	154	-27.397	15.168	-11.437	1.00188.11		C
ATOM	1207	CD1	LEU	154	-27.605	13.884	-12.259	1.00188.11		C
ATOM	1208	CD2	LEU	154	-28.557	16.165	-11.585	1.00188.11		C
ATOM	1209	C	LEU	154	-27.793	13.401	-8.092	1.00188.11		C
ATOM	1210	O	LEU	154	-27.669	12.186	-8.205	1.00188.11		O
ATOM	1211	N	HIS	155	-27.495	14.058	-6.955	1.00143.23		N
ATOM	1212	CA	HIS	155	-26.929	13.377	-5.824	1.00143.23		C
ATOM	1213	ND1	HIS	155	-24.249	15.040	-5.852	1.00143.23		N
ATOM	1214	CG	HIS	155	-25.485	15.352	-5.330	1.00143.23		C
ATOM	1215	CB	HIS	155	-26.431	14.348	-4.740	1.00143.23		C
ATOM	1216	NE2	HIS	155	-24.531	17.228	-6.146	1.00143.23		N
ATOM	1217	CD2	HIS	155	-25.639	16.691	-5.517	1.00143.23		C
ATOM	1218	CE1	HIS	155	-23.724	16.199	-6.329	1.00143.23		C
ATOM	1219	C	HIS	155	-27.927	12.431	-5.221	1.00143.23		C
ATOM	1220	O	HIS	155	-27.564	11.344	-4.779	1.00143.23		O
ATOM	1221	N	SER	156	-29.207	12.841	-5.152	1.00173.29		N
ATOM	1222	CA	SER	156	-30.262	12.047	-4.580	1.00173.29		C
ATOM	1223	CB	SER	156	-31.547	12.876	-4.433	1.00173.29		C
ATOM	1224	OG	SER	156	-32.580	12.090	-3.865	1.00173.29		O
ATOM	1225	C	SER	156	-30.571	10.869	-5.459	1.00173.29		C
ATOM	1226	O	SER	156	-30.885	9.781	-4.980	1.00173.29		O
ATOM	1227	N	LEU	157	-30.487	11.056	-6.786	1.00214.00		N
ATOM	1228	CA	LEU	157	-30.839	10.024	-7.722	1.00214.00		C
ATOM	1229	CB	LEU	157	-31.015	10.492	-9.179	1.00214.00		C
ATOM	1230	CG	LEU	157	-32.437	10.992	-9.515	1.00214.00		C
ATOM	1231	CD1	LEU	157	-32.854	12.226	-8.702	1.00214.00		C
ATOM	1232	CD2	LEU	157	-32.594	11.189	-11.029	1.00214.00		C
ATOM	1233	C	LEU	157	-29.940	8.813	-7.722	1.00214.00		C
ATOM	1234	O	LEU	157	-30.420	7.737	-8.067	1.00214.00		O
ATOM	1235	N	LEU	158	-28.643	8.907	-7.350	1.00216.87		N
ATOM	1236	CA	LEU	158	-27.757	7.775	-7.524	1.00216.87		C
ATOM	1237	CB	LEU	158	-26.322	7.961	-6.986	1.00216.87		C
ATOM	1238	CG	LEU	158	-25.494	9.088	-7.636	1.00216.87		C
ATOM	1239	CD1	LEU	158	-25.485	8.988	-9.171	1.00216.87		C
ATOM	1240	CD2	LEU	158	-25.872	10.464	-7.079	1.00216.87		C
ATOM	1241	C	LEU	158	-28.286	6.559	-6.829	1.00216.87		C
ATOM	1242	O	LEU	158	-28.204	5.460	-7.378	1.00216.87		O
ATOM	1243	N	HIS	159	-28.863	6.703	-5.621	1.00221.69		N
ATOM	1244	CA	HIS	159	-29.343	5.524	-4.962	1.00221.69		C
ATOM	1245	ND1	HIS	159	-30.271	7.978	-2.460	1.00221.69		N
ATOM	1246	CG	HIS	159	-30.731	6.948	-3.251	1.00221.69		C
ATOM	1247	CB	HIS	159	-29.923	5.716	-3.542	1.00221.69		C
ATOM	1248	NE2	HIS	159	-32.357	8.496	-3.022	1.00221.69		N
ATOM	1249	CD2	HIS	159	-32.007	7.282	-3.590	1.00221.69		C
ATOM	1250	CE1	HIS	159	-31.284	8.874	-2.351	1.00221.69		C
ATOM	1251	C	HIS	159	-30.371	4.848	-5.810	1.00221.69		C
ATOM	1252	O	HIS	159	-30.420	3.620	-5.841	1.00221.69		O
ATOM	1253	N	THR	160	-31.231	5.606	-6.518	1.00207.08		N
ATOM	1254	CA	THR	160	-32.225	4.937	-7.309	1.00207.08		C
ATOM	1255	CB	THR	160	-33.188	5.866	-7.995	1.00207.08		C
ATOM	1256	OG1	THR	160	-32.531	6.608	-9.010	1.00207.08		O
ATOM	1257	CG2	THR	160	-33.789	6.819	-6.949	1.00207.08		C
ATOM	1258	C	THR	160	-31.547	4.148	-8.387	1.00207.08		C
ATOM	1259	O	THR	160	-31.937	3.018	-8.678	1.00207.08		O
ATOM	1260	N	LEU	161	-30.511	4.732	-9.020	1.00136.44		N
ATOM	1261	CA	LEU	161	-29.881	4.077	-10.130	1.00136.44		C
ATOM	1262	CB	LEU	161	-28.817	4.960	-10.804	1.00136.44		C
ATOM	1263	CG	LEU	161	-29.393	6.274	-11.363	1.00136.44		C
ATOM	1264	CD1	LEU	161	-28.317	7.095	-12.094	1.00136.44		C
ATOM	1265	CD2	LEU	161	-30.639	6.018	-12.227	1.00136.44		C
ATOM	1266	C	LEU	161	-29.217	2.802	-9.712	1.00136.44		C
ATOM	1267	O	LEU	161	-29.478	1.753	-10.290	1.00136.44		O
ATOM	1268	N	LEU	162	-28.343	2.835	-8.683	1.00263.94		N
ATOM	1269	CA	LEU	162	-27.706	1.600	-8.341	1.00263.94		C
ATOM	1270	CB	LEU	162	-26.726	1.095	-9.413	1.00263.94		C
ATOM	1271	CG	LEU	162	-26.049	-0.229	-9.016	1.00263.94		C
ATOM	1272	CD1	LEU	162	-27.080	-1.353	-8.831	1.00263.94		C
ATOM	1273	CD2	LEU	162	-24.927	-0.602	-9.993	1.00263.94		C
ATOM	1274	C	LEU	162	-26.894	1.819	-7.116	1.00263.94		C
ATOM	1275	O	LEU	162	-26.972	1.052	-6.159	1.00263.94		O

ATOM	1276	N	MET	163	-26.085	2.891	-7.140	1.00217.33	N
ATOM	1277	CA	MET	163	-25.194	3.197	-6.067	1.00217.33	C
ATOM	1278	CB	MET	163	-24.391	4.489	-6.294	1.00217.33	C
ATOM	1279	CG	MET	163	-23.461	4.426	-7.507	1.00217.33	C
ATOM	1280	SD	MET	163	-22.504	5.938	-7.823	1.00217.33	S
ATOM	1281	CE	MET	163	-21.690	5.285	-9.311	1.00217.33	C
ATOM	1282	C	MET	163	-26.016	3.394	-4.854	1.00217.33	C
ATOM	1283	O	MET	163	-27.105	3.957	-4.915	1.00217.33	O
ATOM	1284	N	ASN	164	-25.503	2.908	-3.711	1.00309.13	N
ATOM	1285	CA	ASN	164	-26.192	2.944	-2.460	1.00309.13	C
ATOM	1286	CB	ASN	164	-26.082	4.263	-1.654	1.00309.13	C
ATOM	1287	CG	ASN	164	-26.746	5.443	-2.347	1.00309.13	C
ATOM	1288	OD1	ASN	164	-27.765	5.945	-1.877	1.00309.13	O
ATOM	1289	ND2	ASN	164	-26.136	5.948	-3.452	1.00309.13	N
ATOM	1290	C	ASN	164	-27.603	2.486	-2.651	1.00309.13	C
ATOM	1291	O	ASN	164	-27.971	1.920	-3.682	1.00309.13	O
ATOM	1292	N	SER	165	-28.441	2.634	-1.619	1.00259.29	N
ATOM	1293	CA	SER	165	-29.740	2.110	-1.867	1.00259.29	C
ATOM	1294	CB	SER	165	-29.825	0.596	-1.579	1.00259.29	C
ATOM	1295	OG	SER	165	-31.125	0.094	-1.851	1.00259.29	O
ATOM	1296	C	SER	165	-30.692	2.803	-0.961	1.00259.29	C
ATOM	1297	O	SER	165	-30.306	3.581	-0.087	1.00259.29	O
ATOM	1298	N	LEU	166	-31.982	2.514	-1.189	1.00232.69	N
ATOM	1299	CA	LEU	166	-33.087	3.073	-0.497	1.00232.69	C
ATOM	1300	CB	LEU	166	-34.425	2.577	-1.061	1.00232.69	C
ATOM	1301	CG	LEU	166	-34.603	2.936	-2.548	1.00232.69	C
ATOM	1302	CD1	LEU	166	-34.524	4.459	-2.746	1.00232.69	C
ATOM	1303	CD2	LEU	166	-33.632	2.153	-3.451	1.00232.69	C
ATOM	1304	C	LEU	166	-33.011	2.690	0.942	1.00232.69	C
ATOM	1305	O	LEU	166	-33.332	3.535	1.762	1.00232.69	O
ATOM	1306	N	SER	167	-32.627	1.427	1.271	1.00298.15	N
ATOM	1307	CA	SER	167	-32.423	0.883	2.607	1.00298.15	C
ATOM	1308	CB	SER	167	-31.000	1.143	3.164	1.00298.15	C
ATOM	1309	OG	SER	167	-30.890	0.781	4.532	1.00298.15	O
ATOM	1310	C	SER	167	-33.548	1.248	3.525	1.00298.15	C
ATOM	1311	O	SER	167	-34.531	1.734	3.012	1.00298.15	O
ATOM	1312	N	PHE	168	-33.518	0.940	4.849	1.00446.93	N
ATOM	1313	CA	PHE	168	-34.618	1.188	5.762	1.00446.93	C
ATOM	1314	CB	PHE	168	-35.417	-0.091	6.135	1.00446.93	C
ATOM	1315	CG	PHE	168	-36.760	0.225	6.732	1.00446.93	C
ATOM	1316	CD1	PHE	168	-37.060	1.479	7.210	1.00446.93	C
ATOM	1317	CD2	PHE	168	-37.725	-0.752	6.847	1.00446.93	C
ATOM	1318	CE1	PHE	168	-38.286	1.778	7.754	1.00446.93	C
ATOM	1319	CE2	PHE	168	-38.957	-0.465	7.390	1.00446.93	C
ATOM	1320	CZ	PHE	168	-39.246	0.801	7.840	1.00446.93	C
ATOM	1321	C	PHE	168	-33.981	1.535	7.078	1.00446.93	C
ATOM	1322	O	PHE	168	-32.992	0.918	7.463	1.00446.93	O
ATOM	1323	N	CYS	169	-34.527	2.526	7.806	1.00275.16	N
ATOM	1324	CA	CYS	169	-34.078	2.830	9.129	1.00275.16	C
ATOM	1325	CB	CYS	169	-34.801	4.039	9.746	1.00275.16	C
ATOM	1326	SG	CYS	169	-34.487	5.598	8.873	1.00275.16	S
ATOM	1327	C	CYS	169	-34.470	1.645	9.951	1.00275.16	C
ATOM	1328	O	CYS	169	-33.772	1.248	10.877	1.00275.16	O
ATOM	1329	N	ALA	170	-35.632	1.063	9.615	1.00366.50	N
ATOM	1330	CA	ALA	170	-36.214	-0.068	10.280	1.00366.50	C
ATOM	1331	CB	ALA	170	-37.742	-0.152	10.174	1.00366.50	C
ATOM	1332	C	ALA	170	-35.656	-1.323	9.688	1.00366.50	C
ATOM	1333	O	ALA	170	-34.446	-1.479	9.569	1.00366.50	O
ATOM	1334	N	ASN	171	-36.558	-2.274	9.364	1.00611.39	N
ATOM	1335	CA	ASN	171	-36.241	-3.598	8.892	1.00611.39	C
ATOM	1336	CB	ASN	171	-37.486	-4.455	8.653	1.00611.39	C
ATOM	1337	CG	ASN	171	-37.066	-5.917	8.796	1.00611.39	C
ATOM	1338	OD1	ASN	171	-37.421	-6.768	7.983	1.00611.39	O
ATOM	1339	ND2	ASN	171	-36.288	-6.212	9.873	1.00611.39	N
ATOM	1340	C	ASN	171	-35.419	-3.573	7.606	1.00611.39	C
ATOM	1341	O	ASN	171	-34.865	-2.545	7.235	1.00611.39	O
ATOM	1342	N	HIS	172	-35.325	-4.743	6.911	1.00251.78	N
ATOM	1343	CA	HIS	172	-34.457	-5.109	5.800	1.00251.78	C
ATOM	1344	ND1	HIS	172	-32.189	-7.796	5.715	1.00251.78	N
ATOM	1345	CG	HIS	172	-33.234	-7.264	4.991	1.00251.78	C
ATOM	1346	CB	HIS	172	-34.443	-6.644	5.635	1.00251.78	C
ATOM	1347	NE2	HIS	172	-31.714	-8.138	3.572	1.00251.78	N
ATOM	1348	CD2	HIS	172	-32.923	-7.479	3.684	1.00251.78	C
ATOM	1349	CE1	HIS	172	-31.308	-8.304	4.817	1.00251.78	C
ATOM	1350	C	HIS	172	-34.814	-4.498	4.454	1.00251.78	C
ATOM	1351	O	HIS	172	-35.977	-4.265	4.127	1.00251.78	O
ATOM	1352	N	GLU	173	-33.751	-4.193	3.661	1.00188.89	N

ATOM	1353	CA	GLU	173	-33.755	-3.627	2.327	1.00188.89	C
ATOM	1354	CB	GLU	173	-32.389	-3.055	1.916	1.00188.89	C
ATOM	1355	CG	GLU	173	-32.368	-2.226	0.635	1.00188.89	C
ATOM	1356	CD	GLU	173	-31.857	-3.071	-0.519	1.00188.89	C
ATOM	1357	OE1	GLU	173	-32.205	-4.278	-0.594	1.00188.89	O
ATOM	1358	OE2	GLU	173	-31.097	-2.508	-1.352	1.00188.89	O
ATOM	1359	C	GLU	173	-34.169	-4.599	1.291	1.00188.89	C
ATOM	1360	O	GLU	173	-34.840	-4.229	0.328	1.00188.89	O
ATOM	1361	N	ILE	174	-33.760	-5.867	1.448	1.00 64.24	N
ATOM	1362	CA	ILE	174	-34.105	-6.825	0.444	1.00 64.24	C
ATOM	1363	CB	ILE	174	-33.633	-8.217	0.727	1.00 64.24	C
ATOM	1364	CG2	ILE	174	-34.292	-9.142	-0.307	1.00 64.24	C
ATOM	1365	CG1	ILE	174	-32.101	-8.275	0.710	1.00 64.24	C
ATOM	1366	CD1	ILE	174	-31.523	-9.615	1.163	1.00 64.24	C
ATOM	1367	C	ILE	174	-35.587	-6.858	0.369	1.00 64.24	C
ATOM	1368	O	ILE	174	-36.156	-6.914	-0.719	1.00 64.24	O
ATOM	1369	N	PRO	175	-36.249	-6.796	1.480	1.00114.78	N
ATOM	1370	CA	PRO	175	-37.664	-6.801	1.381	1.00114.78	C
ATOM	1371	CD	PRO	175	-35.823	-7.461	2.697	1.00114.78	C
ATOM	1372	CB	PRO	175	-38.203	-7.112	2.760	1.00114.78	C
ATOM	1373	CG	PRO	175	-36.963	-7.139	3.670	1.00114.78	C
ATOM	1374	C	PRO	175	-38.154	-5.534	0.818	1.00114.78	C
ATOM	1375	O	PRO	175	-37.442	-4.536	0.845	1.00114.78	O
ATOM	1376	N	HIS	176	-39.383	-5.579	0.310	1.00113.43	N
ATOM	1377	CA	HIS	176	-40.018	-4.494	-0.344	1.00113.43	C
ATOM	1378	ND1	HIS	176	-42.622	-6.564	-2.243	1.00113.43	N
ATOM	1379	CG	HIS	176	-41.478	-5.906	-1.850	1.00113.43	C
ATOM	1380	CB	HIS	176	-41.446	-4.841	-0.793	1.00113.43	C
ATOM	1381	NE2	HIS	176	-40.964	-7.377	-3.483	1.00113.43	N
ATOM	1382	CD2	HIS	176	-40.475	-6.415	-2.616	1.00113.43	C
ATOM	1383	CE1	HIS	176	-42.258	-7.432	-3.221	1.00113.43	C
ATOM	1384	C	HIS	176	-40.101	-3.338	0.587	1.00113.43	C
ATOM	1385	O	HIS	176	-39.843	-2.212	0.173	1.00113.43	O
ATOM	1386	N	PHE	177	-40.458	-3.517	1.873	1.00350.76	N
ATOM	1387	CA	PHE	177	-40.472	-2.230	2.472	1.00350.76	C
ATOM	1388	CB	PHE	177	-41.746	-1.699	3.079	1.00350.76	C
ATOM	1389	CG	PHE	177	-41.278	-0.322	3.427	1.00350.76	C
ATOM	1390	CD1	PHE	177	-41.020	0.567	2.406	1.00350.76	C
ATOM	1391	CD2	PHE	177	-41.098	0.102	4.727	1.00350.76	C
ATOM	1392	CE1	PHE	177	-40.586	1.845	2.668	1.00350.76	C
ATOM	1393	CE2	PHE	177	-40.662	1.376	4.985	1.00350.76	C
ATOM	1394	CZ	PHE	177	-40.403	2.255	3.965	1.00350.76	C
ATOM	1395	C	PHE	177	-39.476	-2.033	3.535	1.00350.76	C
ATOM	1396	O	PHE	177	-39.652	-2.453	4.678	1.00350.76	O
ATOM	1397	N	PHE	178	-38.469	-1.241	3.153	1.00283.03	N
ATOM	1398	CA	PHE	178	-37.367	-0.785	3.929	1.00283.03	C
ATOM	1399	CB	PHE	178	-36.107	-1.594	3.538	1.00283.03	C
ATOM	1400	CG	PHE	178	-35.848	-1.395	2.068	1.00283.03	C
ATOM	1401	CD1	PHE	178	-36.657	-1.958	1.115	1.00283.03	C
ATOM	1402	CD2	PHE	178	-34.839	-0.582	1.613	1.00283.03	C
ATOM	1403	CE1	PHE	178	-36.448	-1.770	-0.231	1.00283.03	C
ATOM	1404	CE2	PHE	178	-34.613	-0.375	0.271	1.00283.03	C
ATOM	1405	CZ	PHE	178	-35.416	-0.977	-0.663	1.00283.03	C
ATOM	1406	C	PHE	178	-37.195	0.649	3.462	1.00283.03	C
ATOM	1407	O	PHE	178	-37.290	0.886	2.263	1.00283.03	O
ATOM	1408	N	CYS	179	-37.010	1.668	4.342	1.00379.54	N
ATOM	1409	CA	CYS	179	-36.715	2.977	3.780	1.00379.54	C
ATOM	1410	CB	CYS	179	-37.862	3.931	3.535	1.00379.54	C
ATOM	1411	SG	CYS	179	-37.163	5.012	2.277	1.00379.54	S
ATOM	1412	C	CYS	179	-35.672	3.695	4.610	1.00379.54	C
ATOM	1413	O	CYS	179	-35.785	3.667	5.836	1.00379.54	O
ATOM	1414	N	ASP	180	-34.627	4.303	3.946	1.00358.33	N
ATOM	1415	CA	ASP	180	-33.563	5.138	4.512	1.00358.33	C
ATOM	1416	CB	ASP	180	-33.442	5.062	6.039	1.00358.33	C
ATOM	1417	CG	ASP	180	-32.424	6.099	6.481	1.00358.33	C
ATOM	1418	OD1	ASP	180	-31.208	5.888	6.229	1.00358.33	O
ATOM	1419	OD2	ASP	180	-32.853	7.120	7.081	1.00358.33	O
ATOM	1420	C	ASP	180	-32.208	4.770	3.938	1.00358.33	C
ATOM	1421	O	ASP	180	-31.913	3.589	3.838	1.00358.33	O
ATOM	1422	N	ILE	181	-31.318	5.741	3.584	1.00263.63	N
ATOM	1423	CA	ILE	181	-30.028	5.457	2.969	1.00263.63	C
ATOM	1424	CB	ILE	181	-29.147	6.657	2.785	1.00263.63	C
ATOM	1425	CG2	ILE	181	-28.671	7.123	4.171	1.00263.63	C
ATOM	1426	CG1	ILE	181	-28.005	6.328	1.811	1.00263.63	C
ATOM	1427	CD1	ILE	181	-27.300	7.571	1.274	1.00263.63	C
ATOM	1428	C	ILE	181	-29.307	4.459	3.807	1.00263.63	C
ATOM	1429	O	ILE	181	-29.447	4.470	5.026	1.00263.63	O

ATOM	1430	N	ASN	182	-28.513	3.568	3.168	1.00216.31	N
ATOM	1431	CA	ASN	182	-27.975	2.449	3.886	1.00216.31	C
ATOM	1432	CB	ASN	182	-27.903	1.196	3.001	1.00216.31	C
ATOM	1433	CG	ASN	182	-27.909	-0.007	3.917	1.00216.31	C
ATOM	1434	OD1	ASN	182	-27.244	-0.019	4.951	1.00216.31	O
ATOM	1435	ND2	ASN	182	-28.692	-1.052	3.538	1.00216.31	N
ATOM	1436	C	ASN	182	-26.629	2.753	4.483	1.00216.31	C
ATOM	1437	O	ASN	182	-25.724	3.263	3.832	1.00216.31	O
ATOM	1438	N	PRO	183	-26.581	2.593	5.784	1.00258.09	N
ATOM	1439	CA	PRO	183	-25.390	2.712	6.600	1.00258.09	C
ATOM	1440	CD	PRO	183	-27.786	2.816	6.564	1.00258.09	C
ATOM	1441	CB	PRO	183	-25.875	3.318	7.918	1.00258.09	C
ATOM	1442	CG	PRO	183	-27.337	2.873	8.026	1.00258.09	C
ATOM	1443	C	PRO	183	-24.633	1.427	6.883	1.00258.09	C
ATOM	1444	O	PRO	183	-23.594	1.504	7.536	1.00258.09	O
ATOM	1445	N	LEU	184	-25.097	0.245	6.434	1.00238.75	N
ATOM	1446	CA	LEU	184	-24.578	-0.983	6.996	1.00238.75	C
ATOM	1447	CB	LEU	184	-25.705	-1.987	7.284	1.00238.75	C
ATOM	1448	CG	LEU	184	-26.768	-1.441	8.255	1.00238.75	C
ATOM	1449	CD1	LEU	184	-27.855	-2.489	8.541	1.00238.75	C
ATOM	1450	CD2	LEU	184	-26.129	-0.865	9.529	1.00238.75	C
ATOM	1451	C	LEU	184	-23.534	-1.732	6.193	1.00238.75	C
ATOM	1452	O	LEU	184	-22.335	-1.524	6.358	1.00238.75	O
ATOM	1453	N	LEU	185	-24.011	-2.661	5.331	1.00181.98	N
ATOM	1454	CA	LEU	185	-23.336	-3.711	4.603	1.00181.98	C
ATOM	1455	CB	LEU	185	-24.342	-4.547	3.788	1.00181.98	C
ATOM	1456	CG	LEU	185	-25.396	-5.294	4.634	1.00181.98	C
ATOM	1457	CD1	LEU	185	-24.736	-6.315	5.573	1.00181.98	C
ATOM	1458	CD2	LEU	185	-26.341	-4.321	5.356	1.00181.98	C
ATOM	1459	C	LEU	185	-22.218	-3.331	3.671	1.00181.98	C
ATOM	1460	O	LEU	185	-21.114	-3.840	3.843	1.00181.98	O
ATOM	1461	N	SER	186	-22.408	-2.495	2.633	1.00176.40	N
ATOM	1462	CA	SER	186	-21.196	-2.230	1.904	1.00176.40	C
ATOM	1463	CB	SER	186	-21.376	-1.422	0.614	1.00176.40	C
ATOM	1464	OG	SER	186	-20.134	-1.264	-0.052	1.00176.40	O
ATOM	1465	C	SER	186	-20.492	-1.386	2.891	1.00176.40	C
ATOM	1466	O	SER	186	-19.346	-1.605	3.263	1.00176.40	O
ATOM	1467	N	LEU	187	-21.291	-0.424	3.349	1.00178.20	N
ATOM	1468	CA	LEU	187	-21.193	0.466	4.449	1.00178.20	C
ATOM	1469	CB	LEU	187	-20.322	1.706	4.189	1.00178.20	C
ATOM	1470	CG	LEU	187	-18.815	1.391	4.104	1.00178.20	C
ATOM	1471	CD1	LEU	187	-17.989	2.663	3.849	1.00178.20	C
ATOM	1472	CD2	LEU	187	-18.340	0.617	5.345	1.00178.20	C
ATOM	1473	C	LEU	187	-22.610	0.878	4.423	1.00178.20	C
ATOM	1474	O	LEU	187	-22.981	1.994	4.779	1.00178.20	O
ATOM	1475	N	SER	188	-23.426	-0.085	3.927	1.00245.83	N
ATOM	1476	CA	SER	188	-24.811	0.104	3.643	1.00245.83	C
ATOM	1477	CB	SER	188	-25.029	1.019	2.433	1.00245.83	C
ATOM	1478	OG	SER	188	-24.041	2.039	2.357	1.00245.83	O
ATOM	1479	C	SER	188	-25.295	-1.218	3.156	1.00245.83	C
ATOM	1480	O	SER	188	-25.986	-1.947	3.849	1.00245.83	O
ATOM	1481	N	CYS	189	-25.010	-1.517	1.877	1.00249.88	N
ATOM	1482	CA	CYS	189	-25.382	-2.786	1.331	1.00249.88	C
ATOM	1483	CB	CYS	189	-26.509	-2.711	0.292	1.00249.88	C
ATOM	1484	SG	CYS	189	-26.959	-4.343	-0.379	1.00249.88	S
ATOM	1485	C	CYS	189	-24.182	-3.299	0.619	1.00249.88	C
ATOM	1486	O	CYS	189	-23.646	-2.655	-0.277	1.00249.88	O
ATOM	1487	N	THR	190	-23.727	-4.488	1.036	1.00187.22	N
ATOM	1488	CA	THR	190	-22.514	-5.072	0.561	1.00187.22	C
ATOM	1489	CB	THR	190	-22.209	-6.372	1.240	1.00187.22	C
ATOM	1490	OG1	THR	190	-23.236	-7.312	0.955	1.00187.22	O
ATOM	1491	CG2	THR	190	-22.105	-6.153	2.754	1.00187.22	C
ATOM	1492	C	THR	190	-22.569	-5.408	-0.888	1.00187.22	C
ATOM	1493	O	THR	190	-21.643	-5.084	-1.626	1.00187.22	O
ATOM	1494	N	ASP	191	-23.680	-6.014	-1.341	1.00 96.30	N
ATOM	1495	CA	ASP	191	-23.681	-6.631	-2.635	1.00 96.30	C
ATOM	1496	CB	ASP	191	-25.038	-7.279	-2.970	1.00 96.30	C
ATOM	1497	CG	ASP	191	-25.210	-8.447	-2.007	1.00 96.30	C
ATOM	1498	OD1	ASP	191	-24.229	-8.749	-1.277	1.00 96.30	O
ATOM	1499	OD2	ASP	191	-26.317	-9.049	-1.984	1.00 96.30	O
ATOM	1500	C	ASP	191	-23.291	-5.687	-3.730	1.00 96.30	C
ATOM	1501	O	ASP	191	-22.377	-6.013	-4.487	1.00 96.30	O
ATOM	1502	N	PRO	192	-23.876	-4.541	-3.893	1.00270.88	N
ATOM	1503	CA	PRO	192	-23.394	-3.731	-4.974	1.00270.88	C
ATOM	1504	CD	PRO	192	-25.300	-4.348	-3.664	1.00270.88	C
ATOM	1505	CB	PRO	192	-24.458	-2.658	-5.196	1.00270.88	C
ATOM	1506	CG	PRO	192	-25.757	-3.340	-4.732	1.00270.88	C

ATOM	1507	C	PRO	192	-22.037	-3.189	-4.670	1.00270.88	C
ATOM	1508	O	PRO	192	-21.291	-2.891	-5.599	1.00270.88	O
ATOM	1509	N	PHE	193	-21.733	-3.012	-3.369	1.00359.67	N
ATOM	1510	CA	PHE	193	-20.504	-2.465	-2.861	1.00359.67	C
ATOM	1511	CB	PHE	193	-19.224	-3.152	-3.377	1.00359.67	C
ATOM	1512	CG	PHE	193	-19.046	-4.460	-2.685	1.00359.67	C
ATOM	1513	CD1	PHE	193	-18.411	-4.507	-1.465	1.00359.67	C
ATOM	1514	CD2	PHE	193	-19.505	-5.632	-3.241	1.00359.67	C
ATOM	1515	CE1	PHE	193	-18.235	-5.700	-0.806	1.00359.67	C
ATOM	1516	CE2	PHE	193	-19.332	-6.829	-2.585	1.00359.67	C
ATOM	1517	CZ	PHE	193	-18.696	-6.866	-1.366	1.00359.67	C
ATOM	1518	C	PHE	193	-20.422	-1.034	-3.248	1.00359.67	C
ATOM	1519	O	PHE	193	-19.465	-0.330	-2.936	1.00359.67	O
ATOM	1520	N	THR	194	-21.469	-0.545	-3.904	1.00237.10	N
ATOM	1521	CA	THR	194	-21.476	0.812	-4.314	1.00237.10	C
ATOM	1522	CB	THR	194	-22.578	1.115	-5.284	1.00237.10	C
ATOM	1523	OG1	THR	194	-22.535	2.483	-5.657	1.00237.10	O
ATOM	1524	CG2	THR	194	-23.925	0.759	-4.640	1.00237.10	C
ATOM	1525	C	THR	194	-21.676	1.612	-3.079	1.00237.10	C
ATOM	1526	O	THR	194	-21.276	2.769	-2.991	1.00237.10	O
ATOM	1527	N	ASN	195	-22.295	0.974	-2.072	1.00188.35	N
ATOM	1528	CA	ASN	195	-22.737	1.639	-0.896	1.00188.35	C
ATOM	1529	CB	ASN	195	-23.386	0.634	0.051	1.00188.35	C
ATOM	1530	CG	ASN	195	-24.540	-0.031	-0.692	1.00188.35	C
ATOM	1531	OD1	ASN	195	-24.334	-0.679	-1.716	1.00188.35	O
ATOM	1532	ND2	ASN	195	-25.788	0.127	-0.176	1.00188.35	N
ATOM	1533	C	ASN	195	-21.609	2.338	-0.204	1.00188.35	C
ATOM	1534	O	ASN	195	-21.752	3.492	0.195	1.00188.35	O
ATOM	1535	N	GLU	196	-20.440	1.693	-0.069	1.00148.53	N
ATOM	1536	CA	GLU	196	-19.382	2.313	0.689	1.00148.53	C
ATOM	1537	CB	GLU	196	-18.108	1.464	0.714	1.00148.53	C
ATOM	1538	CG	GLU	196	-18.294	0.160	1.473	1.00148.53	C
ATOM	1539	CD	GLU	196	-17.116	-0.758	1.195	1.00148.53	C
ATOM	1540	OE1	GLU	196	-16.012	-0.488	1.737	1.00148.53	O
ATOM	1541	OE2	GLU	196	-17.313	-1.748	0.441	1.00148.53	O
ATOM	1542	C	GLU	196	-18.966	3.619	0.089	1.00148.53	C
ATOM	1543	O	GLU	196	-18.839	4.626	0.785	1.00148.53	O
ATOM	1544	N	LEU	197	-18.746	3.646	-1.232	1.00170.48	N
ATOM	1545	CA	LEU	197	-18.241	4.849	-1.827	1.00170.48	C
ATOM	1546	CB	LEU	197	-17.944	4.675	-3.335	1.00170.48	C
ATOM	1547	CG	LEU	197	-17.390	5.906	-4.097	1.00170.48	C
ATOM	1548	CD1	LEU	197	-16.960	5.489	-5.510	1.00170.48	C
ATOM	1549	CD2	LEU	197	-18.374	7.091	-4.172	1.00170.48	C
ATOM	1550	C	LEU	197	-19.269	5.909	-1.653	1.00170.48	C
ATOM	1551	O	LEU	197	-18.940	7.053	-1.348	1.00170.48	O
ATOM	1552	N	VAL	198	-20.549	5.540	-1.828	1.00139.74	N
ATOM	1553	CA	VAL	198	-21.604	6.504	-1.799	1.00139.74	C
ATOM	1554	CB	VAL	198	-22.951	5.896	-2.046	1.00139.74	C
ATOM	1555	CG1	VAL	198	-24.016	6.978	-1.836	1.00139.74	C
ATOM	1556	CG2	VAL	198	-22.957	5.274	-3.452	1.00139.74	C
ATOM	1557	C	VAL	198	-21.658	7.155	-0.462	1.00139.74	C
ATOM	1558	O	VAL	198	-21.862	8.361	-0.371	1.00139.74	O
ATOM	1559	N	ILE	199	-21.479	6.387	0.623	1.00200.38	N
ATOM	1560	CA	ILE	199	-21.610	7.012	1.902	1.00200.38	C
ATOM	1561	CB	ILE	199	-21.530	6.028	3.045	1.00200.38	C
ATOM	1562	CG2	ILE	199	-22.707	5.053	2.874	1.00200.38	C
ATOM	1563	CG1	ILE	199	-20.167	5.318	3.149	1.00200.38	C
ATOM	1564	CD1	ILE	199	-19.086	6.118	3.876	1.00200.38	C
ATOM	1565	C	ILE	199	-20.574	8.077	2.036	1.00200.38	C
ATOM	1566	O	ILE	199	-20.871	9.177	2.497	1.00200.38	O
ATOM	1567	N	PHE	200	-19.327	7.791	1.627	1.00147.20	N
ATOM	1568	CA	PHE	200	-18.291	8.771	1.775	1.00147.20	C
ATOM	1569	CB	PHE	200	-16.900	8.216	1.426	1.00147.20	C
ATOM	1570	CG	PHE	200	-15.896	9.277	1.726	1.00147.20	C
ATOM	1571	CD1	PHE	200	-15.421	9.445	3.006	1.00147.20	C
ATOM	1572	CD2	PHE	200	-15.425	10.100	0.729	1.00147.20	C
ATOM	1573	CE1	PHE	200	-14.493	10.420	3.290	1.00147.20	C
ATOM	1574	CE2	PHE	200	-14.497	11.076	1.006	1.00147.20	C
ATOM	1575	CZ	PHE	200	-14.030	11.239	2.288	1.00147.20	C
ATOM	1576	C	PHE	200	-18.566	9.925	0.867	1.00147.20	C
ATOM	1577	O	PHE	200	-18.509	11.084	1.276	1.00147.20	O
ATOM	1578	N	ILE	201	-18.900	9.625	-0.400	1.00197.95	N
ATOM	1579	CA	ILE	201	-19.081	10.658	-1.373	1.00197.95	C
ATOM	1580	CB	ILE	201	-19.306	10.114	-2.761	1.00197.95	C
ATOM	1581	CG2	ILE	201	-20.598	9.280	-2.762	1.00197.95	C
ATOM	1582	CG1	ILE	201	-19.287	11.253	-3.794	1.00197.95	C
ATOM	1583	CD1	ILE	201	-17.914	11.905	-3.952	1.00197.95	C

ATOM	1584	C	ILE	201	-20.241	11.529	-1.003	1.00197.95	C
ATOM	1585	O	ILE	201	-20.143	12.751	-1.070	1.00197.95	O
ATOM	1586	N	THR	202	-21.369	10.917	-0.600	1.00159.18	N
ATOM	1587	CA	THR	202	-22.587	11.630	-0.334	1.00159.18	C
ATOM	1588	CB	THR	202	-23.753	10.726	-0.079	1.00159.18	C
ATOM	1589	OG1	THR	202	-23.499	9.897	1.045	1.00159.18	O
ATOM	1590	CG2	THR	202	-23.991	9.877	-1.332	1.00159.18	C
ATOM	1591	C	THR	202	-22.478	12.527	0.846	1.00159.18	C
ATOM	1592	O	THR	202	-22.878	13.687	0.782	1.00159.18	O
ATOM	1593	N	GLY	203	-21.933	12.026	1.965	1.00 70.42	N
ATOM	1594	CA	GLY	203	-21.918	12.854	3.129	1.00 70.42	C
ATOM	1595	C	GLY	203	-21.084	14.050	2.842	1.00 70.42	C
ATOM	1596	O	GLY	203	-21.467	15.171	3.173	1.00 70.42	O
ATOM	1597	N	GLY	204	-19.905	13.837	2.232	1.00 60.79	N
ATOM	1598	CA	GLY	204	-19.048	14.954	1.975	1.00 60.79	C
ATOM	1599	C	GLY	204	-19.641	15.875	0.949	1.00 60.79	C
ATOM	1600	O	GLY	204	-19.737	17.080	1.169	1.00 60.79	O
ATOM	1601	N	LEU	205	-20.059	15.324	-0.207	1.00193.33	N
ATOM	1602	CA	LEU	205	-20.526	16.127	-1.303	1.00193.33	C
ATOM	1603	CB	LEU	205	-20.639	15.292	-2.588	1.00193.33	C
ATOM	1604	CG	LEU	205	-21.081	16.078	-3.830	1.00193.33	C
ATOM	1605	CD1	LEU	205	-20.131	17.250	-4.124	1.00193.33	C
ATOM	1606	CD2	LEU	205	-21.212	15.130	-5.031	1.00193.33	C
ATOM	1607	C	LEU	205	-21.850	16.781	-1.009	1.00193.33	C
ATOM	1608	O	LEU	205	-22.038	17.964	-1.285	1.00193.33	O
ATOM	1609	N	THR	206	-22.810	16.013	-0.459	1.00 97.07	N
ATOM	1610	CA	THR	206	-24.145	16.468	-0.168	1.00 97.07	C
ATOM	1611	CB	THR	206	-25.056	15.337	0.196	1.00 97.07	C
ATOM	1612	OG1	THR	206	-25.174	14.423	-0.884	1.00 97.07	O
ATOM	1613	CG2	THR	206	-26.424	15.916	0.581	1.00 97.07	C
ATOM	1614	C	THR	206	-24.202	17.427	0.980	1.00 97.07	C
ATOM	1615	O	THR	206	-24.977	18.383	0.943	1.00 97.07	O
ATOM	1616	N	GLY	207	-23.394	17.191	2.033	1.00102.03	N
ATOM	1617	CA	GLY	207	-23.553	17.941	3.247	1.00102.03	C
ATOM	1618	C	GLY	207	-22.339	18.749	3.600	1.00102.03	C
ATOM	1619	O	GLY	207	-22.370	19.977	3.561	1.00102.03	O
ATOM	1620	N	LEU	208	-21.238	18.071	3.973	1.00109.38	N
ATOM	1621	CA	LEU	208	-20.075	18.715	4.522	1.00109.38	C
ATOM	1622	CB	LEU	208	-18.961	17.719	4.886	1.00109.38	C
ATOM	1623	CG	LEU	208	-19.341	16.771	6.039	1.00109.38	C
ATOM	1624	CD1	LEU	208	-19.511	17.539	7.360	1.00109.38	C
ATOM	1625	CD2	LEU	208	-20.570	15.919	5.685	1.00109.38	C
ATOM	1626	C	LEU	208	-19.490	19.739	3.590	1.00109.38	C
ATOM	1627	O	LEU	208	-19.071	20.800	4.048	1.00109.38	O
ATOM	1628	N	ILE	209	-19.427	19.469	2.271	1.00 95.36	N
ATOM	1629	CA	ILE	209	-18.805	20.406	1.370	1.00 95.36	C
ATOM	1630	CB	ILE	209	-18.763	19.911	-0.046	1.00 95.36	C
ATOM	1631	CG2	ILE	209	-18.274	21.066	-0.935	1.00 95.36	C
ATOM	1632	CG1	ILE	209	-17.903	18.639	-0.148	1.00 95.36	C
ATOM	1633	CD1	ILE	209	-16.452	18.849	0.282	1.00 95.36	C
ATOM	1634	C	ILE	209	-19.563	21.700	1.355	1.00 95.36	C
ATOM	1635	O	ILE	209	-18.970	22.769	1.490	1.00 95.36	O
ATOM	1636	N	CYS	210	-20.900	21.640	1.219	1.00 46.99	N
ATOM	1637	CA	CYS	210	-21.706	22.826	1.154	1.00 46.99	C
ATOM	1638	CB	CYS	210	-23.202	22.515	0.962	1.00 46.99	C
ATOM	1639	SG	CYS	210	-23.551	21.674	-0.613	1.00 46.99	S
ATOM	1640	C	CYS	210	-21.560	23.542	2.459	1.00 46.99	C
ATOM	1641	O	CYS	210	-21.564	24.770	2.512	1.00 46.99	O
ATOM	1642	N	VAL	211	-21.440	22.775	3.557	1.00 51.84	N
ATOM	1643	CA	VAL	211	-21.327	23.334	4.871	1.00 51.84	C
ATOM	1644	CB	VAL	211	-21.227	22.281	5.934	1.00 51.84	C
ATOM	1645	CG1	VAL	211	-20.947	22.973	7.278	1.00 51.84	C
ATOM	1646	CG2	VAL	211	-22.516	21.443	5.910	1.00 51.84	C
ATOM	1647	C	VAL	211	-20.078	24.159	4.960	1.00 51.84	C
ATOM	1648	O	VAL	211	-20.095	25.262	5.501	1.00 51.84	O
ATOM	1649	N	LEU	212	-18.955	23.646	4.424	1.00 47.78	N
ATOM	1650	CA	LEU	212	-17.699	24.333	4.548	1.00 47.78	C
ATOM	1651	CB	LEU	212	-16.535	23.550	3.923	1.00 47.78	C
ATOM	1652	CG	LEU	212	-16.258	22.212	4.631	1.00 47.78	C
ATOM	1653	CD1	LEU	212	-15.085	21.467	3.971	1.00 47.78	C
ATOM	1654	CD2	LEU	212	-16.066	22.413	6.145	1.00 47.78	C
ATOM	1655	C	LEU	212	-17.765	25.652	3.847	1.00 47.78	C
ATOM	1656	O	LEU	212	-17.343	26.671	4.394	1.00 47.78	O
ATOM	1657	N	CYS	213	-18.301	25.678	2.613	1.00 77.69	N
ATOM	1658	CA	CYS	213	-18.322	26.909	1.880	1.00 77.69	C
ATOM	1659	CB	CYS	213	-18.827	26.761	0.429	1.00 77.69	C
ATOM	1660	SG	CYS	213	-20.578	26.295	0.300	1.00 77.69	S

ATOM	1661	C	CYS	213	-19.199	27.886	2.592	1.00	77.69	C
ATOM	1662	O	CYS	213	-18.854	29.059	2.723	1.00	77.69	O
ATOM	1663	N	LEU	214	-20.353	27.406	3.089	1.00	130.40	N
ATOM	1664	CA	LEU	214	-21.322	28.243	3.730	1.00	130.40	C
ATOM	1665	CB	LEU	214	-22.544	27.412	4.171	1.00	130.40	C
ATOM	1666	CG	LEU	214	-23.681	28.179	4.874	1.00	130.40	C
ATOM	1667	CD1	LEU	214	-23.292	28.624	6.293	1.00	130.40	C
ATOM	1668	CD2	LEU	214	-24.209	29.325	3.998	1.00	130.40	C
ATOM	1669	C	LEU	214	-20.691	28.861	4.934	1.00	130.40	C
ATOM	1670	O	LEU	214	-20.786	30.069	5.143	1.00	130.40	O
ATOM	1671	N	ILE	215	-20.003	28.051	5.754	1.00	88.29	N
ATOM	1672	CA	ILE	215	-19.418	28.572	6.953	1.00	88.29	C
ATOM	1673	CB	ILE	215	-18.835	27.510	7.844	1.00	88.29	C
ATOM	1674	CG2	ILE	215	-17.679	26.808	7.114	1.00	88.29	C
ATOM	1675	CG1	ILE	215	-18.443	28.121	9.197	1.00	88.29	C
ATOM	1676	CD1	ILE	215	-18.114	27.072	10.256	1.00	88.29	C
ATOM	1677	C	ILE	215	-18.340	29.552	6.613	1.00	88.29	C
ATOM	1678	O	ILE	215	-18.279	30.637	7.190	1.00	88.29	O
ATOM	1679	N	ILE	216	-17.471	29.209	5.646	1.00	84.61	N
ATOM	1680	CA	ILE	216	-16.372	30.074	5.336	1.00	84.61	C
ATOM	1681	CB	ILE	216	-15.423	29.476	4.333	1.00	84.61	C
ATOM	1682	CG2	ILE	216	-14.815	28.206	4.952	1.00	84.61	C
ATOM	1683	CG1	ILE	216	-16.125	29.228	2.987	1.00	84.61	C
ATOM	1684	CD1	ILE	216	-15.162	28.944	1.836	1.00	84.61	C
ATOM	1685	C	ILE	216	-16.878	31.372	4.785	1.00	84.61	C
ATOM	1686	O	ILE	216	-16.445	32.444	5.203	1.00	84.61	O
ATOM	1687	N	SER	217	-17.825	31.313	3.834	1.00	43.65	N
ATOM	1688	CA	SER	217	-18.302	32.504	3.196	1.00	43.65	C
ATOM	1689	CB	SER	217	-19.261	32.211	2.029	1.00	43.65	C
ATOM	1690	OG	SER	217	-20.448	31.603	2.517	1.00	43.65	O
ATOM	1691	C	SER	217	-19.048	33.359	4.168	1.00	43.65	C
ATOM	1692	O	SER	217	-18.879	34.577	4.191	1.00	43.65	O
ATOM	1693	N	TYR	218	-19.890	32.737	5.011	1.00	95.24	N
ATOM	1694	CA	TYR	218	-20.738	33.501	5.874	1.00	95.24	C
ATOM	1695	CB	TYR	218	-21.814	32.685	6.606	1.00	95.24	C
ATOM	1696	CG	TYR	218	-22.869	33.700	6.879	1.00	95.24	C
ATOM	1697	CD1	TYR	218	-23.685	34.086	5.841	1.00	95.24	C
ATOM	1698	CD2	TYR	218	-23.056	34.266	8.118	1.00	95.24	C
ATOM	1699	CE1	TYR	218	-24.671	35.023	6.019	1.00	95.24	C
ATOM	1700	CE2	TYR	218	-24.046	35.207	8.306	1.00	95.24	C
ATOM	1701	CZ	TYR	218	-24.852	35.587	7.257	1.00	95.24	C
ATOM	1702	OH	TYR	218	-25.864	36.552	7.441	1.00	95.24	O
ATOM	1703	C	TYR	218	-19.905	34.223	6.891	1.00	95.24	C
ATOM	1704	O	TYR	218	-20.259	35.320	7.318	1.00	95.24	O
ATOM	1705	N	THR	219	-18.792	33.610	7.341	1.00	110.56	N
ATOM	1706	CA	THR	219	-17.955	34.248	8.319	1.00	110.56	C
ATOM	1707	CB	THR	219	-16.767	33.423	8.722	1.00	110.56	C
ATOM	1708	OG1	THR	219	-15.916	33.202	7.608	1.00	110.56	O
ATOM	1709	CG2	THR	219	-17.264	32.084	9.291	1.00	110.56	C
ATOM	1710	C	THR	219	-17.432	35.517	7.720	1.00	110.56	C
ATOM	1711	O	THR	219	-17.314	36.532	8.405	1.00	110.56	O
ATOM	1712	N	ASN	220	-17.104	35.483	6.414	1.00	54.59	N
ATOM	1713	CA	ASN	220	-16.575	36.621	5.718	1.00	54.59	C
ATOM	1714	CB	ASN	220	-16.261	36.323	4.241	1.00	54.59	C
ATOM	1715	CG	ASN	220	-15.110	35.327	4.195	1.00	54.59	C
ATOM	1716	OD1	ASN	220	-14.345	35.198	5.148	1.00	54.59	O
ATOM	1717	ND2	ASN	220	-14.978	34.604	3.050	1.00	54.59	N
ATOM	1718	C	ASN	220	-17.603	37.709	5.738	1.00	54.59	C
ATOM	1719	O	ASN	220	-17.269	38.885	5.867	1.00	54.59	O
ATOM	1720	N	VAL	221	-18.890	37.338	5.609	1.00	52.12	N
ATOM	1721	CA	VAL	221	-19.956	38.297	5.584	1.00	52.12	C
ATOM	1722	CB	VAL	221	-21.306	37.656	5.427	1.00	52.12	C
ATOM	1723	CG1	VAL	221	-22.391	38.737	5.565	1.00	52.12	C
ATOM	1724	CG2	VAL	221	-21.342	36.915	4.078	1.00	52.12	C
ATOM	1725	C	VAL	221	-19.948	39.041	6.880	1.00	52.12	C
ATOM	1726	O	VAL	221	-20.157	40.252	6.909	1.00	52.12	O
ATOM	1727	N	PHE	222	-19.693	38.338	7.997	1.00	82.36	N
ATOM	1728	CA	PHE	222	-19.705	38.998	9.269	1.00	82.36	C
ATOM	1729	CB	PHE	222	-19.420	38.069	10.461	1.00	82.36	C
ATOM	1730	CG	PHE	222	-20.599	37.185	10.668	1.00	82.36	C
ATOM	1731	CD1	PHE	222	-21.769	37.703	11.175	1.00	82.36	C
ATOM	1732	CD2	PHE	222	-20.531	35.842	10.383	1.00	82.36	C
ATOM	1733	CE1	PHE	222	-22.863	36.896	11.376	1.00	82.36	C
ATOM	1734	CE2	PHE	222	-21.623	35.030	10.583	1.00	82.36	C
ATOM	1735	CZ	PHE	222	-22.792	35.557	11.079	1.00	82.36	C
ATOM	1736	C	PHE	222	-18.648	40.059	9.292	1.00	82.36	C
ATOM	1737	O	PHE	222	-18.897	41.176	9.744	1.00	82.36	O

ATOM	1738	N	SER	223	-17.435	39.748	8.798	1.00	87.92	N
ATOM	1739	CA	SER	223	-16.368	40.706	8.867	1.00	87.92	C
ATOM	1740	CB	SER	223	-15.059	40.193	8.243	1.00	87.92	C
ATOM	1741	OG	SER	223	-14.557	39.095	8.991	1.00	87.92	O
ATOM	1742	C	SER	223	-16.766	41.932	8.108	1.00	87.92	C
ATOM	1743	O	SER	223	-16.557	43.052	8.571	1.00	87.92	O
ATOM	1744	N	THR	224	-17.352	41.750	6.912	1.00146.38		N
ATOM	1745	CA	THR	224	-17.734	42.872	6.108	1.00146.38		C
ATOM	1746	CB	THR	224	-18.214	42.491	4.734	1.00146.38		C
ATOM	1747	OG1	THR	224	-19.379	41.685	4.813	1.00146.38		O
ATOM	1748	CG2	THR	224	-17.092	41.724	4.016	1.00146.38		C
ATOM	1749	C	THR	224	-18.830	43.633	6.785	1.00146.38		C
ATOM	1750	O	THR	224	-18.811	44.862	6.803	1.00146.38		O
ATOM	1751	N	ILE	225	-19.792	42.923	7.407	1.00135.62		N
ATOM	1752	CA	ILE	225	-20.937	43.588	7.957	1.00135.62		C
ATOM	1753	CB	ILE	225	-21.877	42.647	8.653	1.00135.62		C
ATOM	1754	CG2	ILE	225	-22.957	43.485	9.359	1.00135.62		C
ATOM	1755	CG1	ILE	225	-22.439	41.616	7.660	1.00135.62		C
ATOM	1756	CD1	ILE	225	-23.166	40.453	8.336	1.00135.62		C
ATOM	1757	C	ILE	225	-20.480	44.594	8.959	1.00135.62		C
ATOM	1758	O	ILE	225	-20.901	45.746	8.876	1.00135.62		O
ATOM	1759	N	LEU	226	-19.611	44.182	9.909	1.00354.06		N
ATOM	1760	CA	LEU	226	-19.008	45.024	10.912	1.00354.06		C
ATOM	1761	CB	LEU	226	-19.607	46.425	11.175	1.00354.06		C
ATOM	1762	CG	LEU	226	-19.243	47.509	10.135	1.00354.06		C
ATOM	1763	CD1	LEU	226	-19.890	48.856	10.497	1.00354.06		C
ATOM	1764	CD2	LEU	226	-17.723	47.611	9.940	1.00354.06		C
ATOM	1765	C	LEU	226	-19.035	44.316	12.219	1.00354.06		C
ATOM	1766	O	LEU	226	-19.839	43.416	12.456	1.00354.06		O
ATOM	1767	N	LYS	227	-18.129	44.735	13.115	1.00243.28		N
ATOM	1768	CA	LYS	227	-18.014	44.140	14.409	1.00243.28		C
ATOM	1769	CB	LYS	227	-16.956	44.862	15.250	1.00243.28		C
ATOM	1770	CG	LYS	227	-15.580	44.927	14.591	1.00243.28		C
ATOM	1771	CD	LYS	227	-14.698	46.033	15.170	1.00243.28		C
ATOM	1772	CE	LYS	227	-15.185	47.439	14.806	1.00243.28		C
ATOM	1773	NZ	LYS	227	-14.374	48.458	15.508	1.00243.28		N
ATOM	1774	C	LYS	227	-19.307	44.353	15.126	1.00243.28		C
ATOM	1775	O	LYS	227	-19.903	43.424	15.669	1.00243.28		O
ATOM	1776	N	ILE	228	-19.795	45.603	15.103	1.00220.18		N
ATOM	1777	CA	ILE	228	-20.966	45.933	15.851	1.00220.18		C
ATOM	1778	CB	ILE	228	-21.021	47.376	16.267	1.00220.18		C
ATOM	1779	CG2	ILE	228	-19.832	47.645	17.204	1.00220.18		C
ATOM	1780	CG1	ILE	228	-21.063	48.297	15.036	1.00220.18		C
ATOM	1781	CD1	ILE	228	-21.382	49.753	15.376	1.00220.18		C
ATOM	1782	C	ILE	228	-22.170	45.656	15.026	1.00220.18		C
ATOM	1783	O	ILE	228	-22.218	45.922	13.826	1.00220.18		O
ATOM	1784	N	PRO	229	-23.140	45.074	15.667	1.00197.13		N
ATOM	1785	CA	PRO	229	-24.389	44.855	15.010	1.00197.13		C
ATOM	1786	CD	PRO	229	-22.893	44.114	16.729	1.00197.13		C
ATOM	1787	CB	PRO	229	-25.199	43.980	15.963	1.00197.13		C
ATOM	1788	CG	PRO	229	-24.120	43.187	16.728	1.00197.13		C
ATOM	1789	C	PRO	229	-24.923	46.227	14.797	1.00197.13		C
ATOM	1790	O	PRO	229	-24.768	47.064	15.684	1.00197.13		O
ATOM	1791	N	SER	230	-25.555	46.486	13.643	1.00	91.40	N
ATOM	1792	CA	SER	230	-26.005	47.816	13.382	1.00	91.40	C
ATOM	1793	CB	SER	230	-26.481	48.023	11.931	1.00	91.40	C
ATOM	1794	OG	SER	230	-26.888	49.367	11.723	1.00	91.40	O
ATOM	1795	C	SER	230	-27.150	48.060	14.294	1.00	91.40	C
ATOM	1796	O	SER	230	-27.555	47.174	15.045	1.00	91.40	O
ATOM	1797	N	ALA	231	-27.686	49.292	14.259	1.00360.34		N
ATOM	1798	CA	ALA	231	-28.785	49.612	15.108	1.00360.34		C
ATOM	1799	CB	ALA	231	-29.343	51.024	14.858	1.00360.34		C
ATOM	1800	C	ALA	231	-29.849	48.641	14.740	1.00360.34		C
ATOM	1801	O	ALA	231	-30.536	48.110	15.611	1.00360.34		O
ATOM	1802	N	GLN	232	-30.000	48.370	13.428	1.00298.30		N
ATOM	1803	CA	GLN	232	-31.025	47.449	13.051	1.00298.30		C
ATOM	1804	CB	GLN	232	-32.424	48.017	13.365	1.00298.30		C
ATOM	1805	CG	GLN	232	-33.587	47.021	13.320	1.00298.30		C
ATOM	1806	CD	GLN	232	-34.864	47.808	13.591	1.00298.30		C
ATOM	1807	OE1	GLN	232	-35.093	48.867	13.007	1.00298.30		O
ATOM	1808	NE2	GLN	232	-35.721	47.283	14.507	1.00298.30		N
ATOM	1809	C	GLN	232	-30.920	47.231	11.576	1.00298.30		C
ATOM	1810	O	GLN	232	-29.848	47.344	10.982	1.00298.30		O
ATOM	1811	N	GLY	233	-32.055	46.850	10.964	1.00567.95		N
ATOM	1812	CA	GLY	233	-32.159	46.723	9.547	1.00567.95		C
ATOM	1813	C	GLY	233	-31.389	45.555	9.034	1.00567.95		C
ATOM	1814	O	GLY	233	-31.569	44.417	9.463	1.00567.95		O

ATOM	1815	N	LYS	234	-30.494	45.845	8.077	1.00267.96	N
ATOM	1816	CA	LYS	234	-29.798	44.844	7.328	1.00267.96	C
ATOM	1817	CB	LYS	234	-28.873	45.430	6.249	1.00267.96	C
ATOM	1818	CG	LYS	234	-28.467	44.405	5.187	1.00267.96	C
ATOM	1819	CD	LYS	234	-29.645	43.959	4.314	1.00267.96	C
ATOM	1820	CE	LYS	234	-29.245	43.146	3.077	1.00267.96	C
ATOM	1821	NZ	LYS	234	-29.054	41.720	3.432	1.00267.96	N
ATOM	1822	C	LYS	234	-28.967	43.977	8.213	1.00267.96	C
ATOM	1823	O	LYS	234	-28.869	42.773	7.981	1.00267.96	O
ATOM	1824	N	ARG	235	-28.344	44.549	9.255	1.00150.56	N
ATOM	1825	CA	ARG	235	-27.481	43.745	10.069	1.00150.56	C
ATOM	1826	CB	ARG	235	-26.814	44.541	11.207	1.00150.56	C
ATOM	1827	CG	ARG	235	-25.708	43.763	11.926	1.00150.56	C
ATOM	1828	CD	ARG	235	-26.204	42.986	13.145	1.00150.56	C
ATOM	1829	NE	ARG	235	-25.070	42.160	13.644	1.00150.56	N
ATOM	1830	CZ	ARG	235	-25.270	40.832	13.876	1.00150.56	C
ATOM	1831	NH1	ARG	235	-26.499	40.294	13.622	1.00150.56	N
ATOM	1832	NH2	ARG	235	-24.265	40.046	14.362	1.00150.56	N
ATOM	1833	C	ARG	235	-28.300	42.652	10.678	1.00150.56	C
ATOM	1834	O	ARG	235	-27.846	41.514	10.791	1.00150.56	O
ATOM	1835	N	LYS	236	-29.545	42.972	11.072	1.00148.16	N
ATOM	1836	CA	LYS	236	-30.399	42.009	11.705	1.00148.16	C
ATOM	1837	CB	LYS	236	-31.765	42.596	12.085	1.00148.16	C
ATOM	1838	CG	LYS	236	-32.688	41.591	12.769	1.00148.16	C
ATOM	1839	CD	LYS	236	-33.934	42.231	13.380	1.00148.16	C
ATOM	1840	CE	LYS	236	-34.895	41.220	14.003	1.00148.16	C
ATOM	1841	NZ	LYS	236	-34.399	40.802	15.332	1.00148.16	N
ATOM	1842	C	LYS	236	-30.653	40.869	10.768	1.00148.16	C
ATOM	1843	O	LYS	236	-30.624	39.708	11.170	1.00148.16	O
ATOM	1844	N	ALA	237	-30.876	41.173	9.478	1.00123.32	N
ATOM	1845	CA	ALA	237	-31.203	40.151	8.528	1.00123.32	C
ATOM	1846	CB	ALA	237	-31.406	40.706	7.106	1.00123.32	C
ATOM	1847	C	ALA	237	-30.077	39.174	8.481	1.00123.32	C
ATOM	1848	O	ALA	237	-30.290	37.966	8.380	1.00123.32	O
ATOM	1849	N	PHE	238	-28.836	39.673	8.562	1.00 84.41	N
ATOM	1850	CA	PHE	238	-27.711	38.791	8.480	1.00 84.41	C
ATOM	1851	CB	PHE	238	-26.362	39.531	8.436	1.00 84.41	C
ATOM	1852	CG	PHE	238	-26.230	40.088	7.062	1.00 84.41	C
ATOM	1853	CD1	PHE	238	-26.904	41.227	6.693	1.00 84.41	C
ATOM	1854	CD2	PHE	238	-25.421	39.467	6.142	1.00 84.41	C
ATOM	1855	CE1	PHE	238	-26.781	41.736	5.423	1.00 84.41	C
ATOM	1856	CE2	PHE	238	-25.294	39.976	4.869	1.00 84.41	C
ATOM	1857	CZ	PHE	238	-25.974	41.113	4.504	1.00 84.41	C
ATOM	1858	C	PHE	238	-27.722	37.844	9.637	1.00 84.41	C
ATOM	1859	O	PHE	238	-27.446	36.657	9.473	1.00 84.41	O
ATOM	1860	N	SER	239	-28.052	38.333	10.845	1.00102.39	N
ATOM	1861	CA	SER	239	-28.016	37.457	11.979	1.00102.39	C
ATOM	1862	CB	SER	239	-28.380	38.154	13.302	1.00102.39	C
ATOM	1863	OG	SER	239	-29.744	38.548	13.296	1.00102.39	O
ATOM	1864	C	SER	239	-28.996	36.348	11.784	1.00102.39	C
ATOM	1865	O	SER	239	-28.701	35.195	12.096	1.00102.39	O
ATOM	1866	N	THR	240	-30.191	36.657	11.251	1.00182.35	N
ATOM	1867	CA	THR	240	-31.172	35.619	11.123	1.00182.35	C
ATOM	1868	CB	THR	240	-32.518	36.097	10.656	1.00182.35	C
ATOM	1869	OG1	THR	240	-33.475	35.065	10.834	1.00182.35	O
ATOM	1870	CG2	THR	240	-32.455	36.479	9.170	1.00182.35	C
ATOM	1871	C	THR	240	-30.688	34.575	10.170	1.00182.35	C
ATOM	1872	O	THR	240	-30.861	33.380	10.405	1.00182.35	O
ATOM	1873	N	CYS	241	-30.043	34.992	9.069	1.00 83.12	N
ATOM	1874	CA	CYS	241	-29.599	34.029	8.104	1.00 83.12	C
ATOM	1875	CB	CYS	241	-28.849	34.667	6.922	1.00 83.12	C
ATOM	1876	SG	CYS	241	-29.909	35.763	5.934	1.00 83.12	S
ATOM	1877	C	CYS	241	-28.645	33.113	8.796	1.00 83.12	C
ATOM	1878	O	CYS	241	-28.662	31.902	8.580	1.00 83.12	O
ATOM	1879	N	SER	242	-27.787	33.674	9.664	1.00 94.32	N
ATOM	1880	CA	SER	242	-26.830	32.861	10.354	1.00 94.32	C
ATOM	1881	CB	SER	242	-25.882	33.680	11.251	1.00 94.32	C
ATOM	1882	OG	SER	242	-24.964	32.816	11.906	1.00 94.32	O
ATOM	1883	C	SER	242	-27.563	31.897	11.236	1.00 94.32	C
ATOM	1884	O	SER	242	-27.123	30.764	11.423	1.00 94.32	O
ATOM	1885	N	SER	243	-28.712	32.318	11.805	1.00 93.23	N
ATOM	1886	CA	SER	243	-29.443	31.467	12.702	1.00 93.23	C
ATOM	1887	CB	SER	243	-30.620	32.186	13.382	1.00 93.23	C
ATOM	1888	OG	SER	243	-31.244	31.319	14.316	1.00 93.23	O
ATOM	1889	C	SER	243	-29.985	30.285	11.955	1.00 93.23	C
ATOM	1890	O	SER	243	-29.962	29.162	12.457	1.00 93.23	O
ATOM	1891	N	HIS	244	-30.483	30.502	10.722	1.00135.19	N

ATOM	1892	CA	HIS	244	-31.034	29.416	9.960	1.00135.19	C
ATOM	1893	ND1	HIS	244	-33.127	27.866	8.063	1.00135.19	N
ATOM	1894	CG	HIS	244	-32.034	28.654	7.779	1.00135.19	C
ATOM	1895	CB	HIS	244	-31.604	29.836	8.597	1.00135.19	C
ATOM	1896	NE2	HIS	244	-32.189	27.016	6.234	1.00135.19	N
ATOM	1897	CD2	HIS	244	-31.473	28.121	6.659	1.00135.19	C
ATOM	1898	CE1	HIS	244	-33.173	26.902	7.108	1.00135.19	C
ATOM	1899	C	HIS	244	-29.958	28.417	9.691	1.00135.19	C
ATOM	1900	O	HIS	244	-30.188	27.210	9.755	1.00135.19	O
ATOM	1901	N	LEU	245	-28.749	28.906	9.371	1.00 92.45	N
ATOM	1902	CA	LEU	245	-27.646	28.049	9.053	1.00 92.45	C
ATOM	1903	CB	LEU	245	-26.380	28.859	8.727	1.00 92.45	C
ATOM	1904	CG	LEU	245	-26.472	29.667	7.421	1.00 92.45	C
ATOM	1905	CD1	LEU	245	-25.261	30.596	7.251	1.00 92.45	C
ATOM	1906	CD2	LEU	245	-26.641	28.731	6.217	1.00 92.45	C
ATOM	1907	C	LEU	245	-27.320	27.206	10.247	1.00 92.45	C
ATOM	1908	O	LEU	245	-27.159	25.992	10.136	1.00 92.45	O
ATOM	1909	N	SER	246	-27.232	27.838	11.432	1.00 93.27	N
ATOM	1910	CA	SER	246	-26.848	27.139	12.625	1.00 93.27	C
ATOM	1911	CB	SER	246	-26.689	28.074	13.836	1.00 93.27	C
ATOM	1912	OG	SER	246	-26.312	27.325	14.983	1.00 93.27	O
ATOM	1913	C	SER	246	-27.893	26.126	12.978	1.00 93.27	C
ATOM	1914	O	SER	246	-27.569	25.014	13.391	1.00 93.27	O
ATOM	1915	N	VAL	247	-29.181	26.482	12.819	1.00 43.84	N
ATOM	1916	CA	VAL	247	-30.238	25.586	13.192	1.00 43.84	C
ATOM	1917	CB	VAL	247	-31.598	26.155	12.954	1.00 43.84	C
ATOM	1918	CG1	VAL	247	-32.619	25.038	13.231	1.00 43.84	C
ATOM	1919	CG2	VAL	247	-31.778	27.411	13.822	1.00 43.84	C
ATOM	1920	C	VAL	247	-30.157	24.352	12.360	1.00 43.84	C
ATOM	1921	O	VAL	247	-30.279	23.241	12.873	1.00 43.84	O
ATOM	1922	N	VAL	248	-29.939	24.518	11.046	1.00 72.32	N
ATOM	1923	CA	VAL	248	-29.902	23.398	10.156	1.00 72.32	C
ATOM	1924	CB	VAL	248	-29.632	23.802	8.736	1.00 72.32	C
ATOM	1925	CG1	VAL	248	-29.490	22.531	7.882	1.00 72.32	C
ATOM	1926	CG2	VAL	248	-30.752	24.747	8.273	1.00 72.32	C
ATOM	1927	C	VAL	248	-28.793	22.498	10.581	1.00 72.32	C
ATOM	1928	O	VAL	248	-28.957	21.281	10.640	1.00 72.32	O
ATOM	1929	N	SER	249	-27.628	23.081	10.904	1.00107.29	N
ATOM	1930	CA	SER	249	-26.501	22.277	11.267	1.00107.29	C
ATOM	1931	CB	SER	249	-25.215	23.093	11.489	1.00107.29	C
ATOM	1932	OG	SER	249	-25.352	23.947	12.614	1.00107.29	O
ATOM	1933	C	SER	249	-26.803	21.537	12.531	1.00107.29	C
ATOM	1934	O	SER	249	-26.489	20.355	12.651	1.00107.29	O
ATOM	1935	N	LEU	250	-27.455	22.206	13.498	1.00 57.85	N
ATOM	1936	CA	LEU	250	-27.682	21.594	14.774	1.00 57.85	C
ATOM	1937	CB	LEU	250	-28.418	22.530	15.752	1.00 57.85	C
ATOM	1938	CG	LEU	250	-27.653	23.826	16.080	1.00 57.85	C
ATOM	1939	CD1	LEU	250	-28.448	24.708	17.057	1.00 57.85	C
ATOM	1940	CD2	LEU	250	-26.223	23.532	16.564	1.00 57.85	C
ATOM	1941	C	LEU	250	-28.539	20.375	14.619	1.00 57.85	C
ATOM	1942	O	LEU	250	-28.248	19.325	15.190	1.00 57.85	O
ATOM	1943	N	PHE	251	-29.639	20.476	13.853	1.00129.72	N
ATOM	1944	CA	PHE	251	-30.517	19.349	13.735	1.00129.72	C
ATOM	1945	CB	PHE	251	-31.875	19.693	13.126	1.00129.72	C
ATOM	1946	CG	PHE	251	-32.600	20.570	14.093	1.00129.72	C
ATOM	1947	CD1	PHE	251	-32.275	21.902	14.201	1.00129.72	C
ATOM	1948	CD2	PHE	251	-33.617	20.071	14.875	1.00129.72	C
ATOM	1949	CE1	PHE	251	-32.939	22.721	15.084	1.00129.72	C
ATOM	1950	CE2	PHE	251	-34.285	20.884	15.761	1.00129.72	C
ATOM	1951	CZ	PHE	251	-33.946	22.211	15.868	1.00129.72	C
ATOM	1952	C	PHE	251	-29.910	18.241	12.926	1.00129.72	C
ATOM	1953	O	PHE	251	-30.092	17.071	13.254	1.00129.72	O
ATOM	1954	N	PHE	252	-29.237	18.588	11.808	1.00150.63	N
ATOM	1955	CA	PHE	252	-28.623	17.666	10.884	1.00150.63	C
ATOM	1956	CB	PHE	252	-28.301	18.311	9.525	1.00150.63	C
ATOM	1957	CG	PHE	252	-29.597	18.484	8.812	1.00150.63	C
ATOM	1958	CD1	PHE	252	-30.422	19.547	9.096	1.00150.63	C
ATOM	1959	CD2	PHE	252	-29.987	17.576	7.854	1.00150.63	C
ATOM	1960	CE1	PHE	252	-31.618	19.702	8.436	1.00150.63	C
ATOM	1961	CE2	PHE	252	-31.181	17.725	7.191	1.00150.63	C
ATOM	1962	CZ	PHE	252	-31.999	18.790	7.481	1.00150.63	C
ATOM	1963	C	PHE	252	-27.361	17.037	11.399	1.00150.63	C
ATOM	1964	O	PHE	252	-27.089	15.874	11.111	1.00150.63	O
ATOM	1965	N	GLY	253	-26.550	17.777	12.173	1.00 47.42	N
ATOM	1966	CA	GLY	253	-25.242	17.303	12.532	1.00 47.42	C
ATOM	1967	C	GLY	253	-25.315	15.984	13.240	1.00 47.42	C
ATOM	1968	O	GLY	253	-24.495	15.106	12.980	1.00 47.42	O

ATOM	1969	N	THR	254	-26.286	15.799	14.152	1.00117.12	N
ATOM	1970	CA	THR	254	-26.353	14.574	14.897	1.00117.12	C
ATOM	1971	CB	THR	254	-27.448	14.581	15.928	1.00117.12	C
ATOM	1972	OG1	THR	254	-27.357	13.422	16.743	1.00117.12	O
ATOM	1973	CG2	THR	254	-28.816	14.636	15.227	1.00117.12	C
ATOM	1974	C	THR	254	-26.582	13.422	13.965	1.00117.12	C
ATOM	1975	O	THR	254	-25.967	12.367	14.115	1.00117.12	O
ATOM	1976	N	SER	255	-27.479	13.585	12.974	1.00 74.37	N
ATOM	1977	CA	SER	255	-27.768	12.514	12.065	1.00 74.37	C
ATOM	1978	CB	SER	255	-28.899	12.847	11.076	1.00 74.37	C
ATOM	1979	OG	SER	255	-28.508	13.911	10.222	1.00 74.37	O
ATOM	1980	C	SER	255	-26.538	12.201	11.270	1.00 74.37	C
ATOM	1981	O	SER	255	-26.205	11.034	11.073	1.00 74.37	O
ATOM	1982	N	PHE	256	-25.825	13.241	10.794	1.00102.73	N
ATOM	1983	CA	PHE	256	-24.640	13.018	10.014	1.00102.73	C
ATOM	1984	CB	PHE	256	-23.989	14.312	9.493	1.00102.73	C
ATOM	1985	CG	PHE	256	-24.874	14.878	8.434	1.00102.73	C
ATOM	1986	CD1	PHE	256	-24.823	14.390	7.149	1.00102.73	C
ATOM	1987	CD2	PHE	256	-25.745	15.903	8.719	1.00102.73	C
ATOM	1988	CE1	PHE	256	-25.635	14.908	6.168	1.00102.73	C
ATOM	1989	CE2	PHE	256	-26.561	16.425	7.743	1.00102.73	C
ATOM	1990	CZ	PHE	256	-26.508	15.927	6.464	1.00102.73	C
ATOM	1991	C	PHE	256	-23.633	12.324	10.871	1.00102.73	C
ATOM	1992	O	PHE	256	-23.004	11.358	10.442	1.00102.73	O
ATOM	1993	N	CYS	257	-23.450	12.805	12.113	1.00109.41	N
ATOM	1994	CA	CYS	257	-22.470	12.221	12.980	1.00109.41	C
ATOM	1995	CB	CYS	257	-22.356	12.957	14.327	1.00109.41	C
ATOM	1996	SG	CYS	257	-21.112	12.211	15.421	1.00109.41	S
ATOM	1997	C	CYS	257	-22.829	10.801	13.281	1.00109.41	C
ATOM	1998	O	CYS	257	-22.001	9.900	13.152	1.00109.41	O
ATOM	1999	N	VAL	258	-24.096	10.561	13.672	1.00 76.64	N
ATOM	2000	CA	VAL	258	-24.525	9.238	14.033	1.00 76.64	C
ATOM	2001	CB	VAL	258	-25.953	9.197	14.489	1.00 76.64	C
ATOM	2002	CG1	VAL	258	-26.354	7.727	14.703	1.00 76.64	C
ATOM	2003	CG2	VAL	258	-26.093	10.069	15.748	1.00 76.64	C
ATOM	2004	C	VAL	258	-24.405	8.367	12.830	1.00 76.64	C
ATOM	2005	O	VAL	258	-23.938	7.232	12.919	1.00 76.64	O
ATOM	2006	N	ASP	259	-24.824	8.883	11.661	1.00192.04	N
ATOM	2007	CA	ASP	259	-24.740	8.081	10.479	1.00192.04	C
ATOM	2008	CB	ASP	259	-25.460	8.659	9.236	1.00192.04	C
ATOM	2009	CG	ASP	259	-24.812	9.927	8.695	1.00192.04	C
ATOM	2010	OD1	ASP	259	-23.579	9.924	8.437	1.00192.04	O
ATOM	2011	OD2	ASP	259	-25.565	10.920	8.513	1.00192.04	O
ATOM	2012	C	ASP	259	-23.295	7.852	10.198	1.00192.04	C
ATOM	2013	O	ASP	259	-22.925	6.834	9.637	1.00192.04	O
ATOM	2014	N	PHE	260	-22.408	8.793	10.546	1.00136.74	N
ATOM	2015	CA	PHE	260	-21.025	8.502	10.310	1.00136.74	C
ATOM	2016	CB	PHE	260	-20.107	9.656	10.753	1.00136.74	C
ATOM	2017	CG	PHE	260	-18.693	9.267	10.492	1.00136.74	C
ATOM	2018	CD1	PHE	260	-18.137	9.429	9.245	1.00136.74	C
ATOM	2019	CD2	PHE	260	-17.918	8.746	11.503	1.00136.74	C
ATOM	2020	CE1	PHE	260	-16.830	9.070	9.009	1.00136.74	C
ATOM	2021	CE2	PHE	260	-16.611	8.385	11.272	1.00136.74	C
ATOM	2022	CZ	PHE	260	-16.064	8.546	10.023	1.00136.74	C
ATOM	2023	C	PHE	260	-20.683	7.311	11.146	1.00136.74	C
ATOM	2024	O	PHE	260	-20.089	6.343	10.671	1.00136.74	O
ATOM	2025	N	SER	261	-21.107	7.344	12.421	1.00110.00	N
ATOM	2026	CA	SER	261	-20.774	6.311	13.354	1.00110.00	C
ATOM	2027	CB	SER	261	-21.333	6.580	14.762	1.00110.00	C
ATOM	2028	OG	SER	261	-20.737	7.748	15.306	1.00110.00	O
ATOM	2029	C	SER	261	-21.321	4.993	12.903	1.00110.00	C
ATOM	2030	O	SER	261	-20.625	3.985	12.969	1.00110.00	O
ATOM	2031	N	SER	262	-22.573	4.939	12.416	1.00 77.32	N
ATOM	2032	CA	SER	262	-23.112	3.645	12.088	1.00 77.32	C
ATOM	2033	CB	SER	262	-24.604	3.690	11.702	1.00 77.32	C
ATOM	2034	OG	SER	262	-25.377	4.142	12.804	1.00 77.32	O
ATOM	2035	C	SER	262	-22.295	2.999	11.002	1.00 77.32	C
ATOM	2036	O	SER	262	-21.882	1.853	11.163	1.00 77.32	O
ATOM	2037	N	PRO	263	-22.024	3.637	9.897	1.00237.37	N
ATOM	2038	CA	PRO	263	-21.142	2.966	8.998	1.00237.37	C
ATOM	2039	CD	PRO	263	-23.135	4.139	9.114	1.00237.37	C
ATOM	2040	CB	PRO	263	-21.180	3.773	7.710	1.00237.37	C
ATOM	2041	CG	PRO	263	-22.665	4.168	7.647	1.00237.37	C
ATOM	2042	C	PRO	263	-19.802	2.662	9.561	1.00237.37	C
ATOM	2043	O	PRO	263	-19.204	1.680	9.127	1.00237.37	O
ATOM	2044	N	SER	264	-19.288	3.468	10.504	1.00106.18	N
ATOM	2045	CA	SER	264	-18.022	3.072	11.033	1.00106.18	C

ATOM	2046	CB	SER	264	-17.366	4.116	11.959	1.00106.18	C
ATOM	2047	OG	SER	264	-18.073	4.235	13.183	1.00106.18	O
ATOM	2048	C	SER	264	-18.246	1.811	11.808	1.00106.18	C
ATOM	2049	O	SER	264	-17.439	0.885	11.756	1.00106.18	O
ATOM	2050	N	THR	265	-19.373	1.734	12.543	1.00247.51	N
ATOM	2051	CA	THR	265	-19.641	0.556	13.314	1.00247.51	C
ATOM	2052	CB	THR	265	-19.998	0.860	14.744	1.00247.51	C
ATOM	2053	OG1	THR	265	-21.146	1.694	14.808	1.00247.51	O
ATOM	2054	CG2	THR	265	-18.801	1.561	15.410	1.00247.51	C
ATOM	2055	C	THR	265	-20.786	-0.173	12.682	1.00247.51	C
ATOM	2056	O	THR	265	-21.954	0.080	12.972	1.00247.51	O
ATOM	2057	N	HIS	266	-20.472	-1.164	11.831	1.00209.49	N
ATOM	2058	CA	HIS	266	-21.499	-1.879	11.131	1.00209.49	C
ATOM	2059	ND1	HIS	266	-22.514	-3.449	8.316	1.00209.49	N
ATOM	2060	CG	HIS	266	-21.997	-3.790	9.548	1.00209.49	C
ATOM	2061	CB	HIS	266	-20.935	-3.019	10.270	1.00209.49	C
ATOM	2062	NE2	HIS	266	-23.564	-5.303	8.958	1.00209.49	N
ATOM	2063	CD2	HIS	266	-22.649	-4.921	9.924	1.00209.49	C
ATOM	2064	CE1	HIS	266	-23.444	-4.386	8.013	1.00209.49	C
ATOM	2065	C	HIS	266	-22.427	-2.497	12.122	1.00209.49	C
ATOM	2066	O	HIS	266	-23.644	-2.354	12.022	1.00209.49	O
ATOM	2067	N	SER	267	-21.891	-3.208	13.124	1.00150.04	N
ATOM	2068	CA	SER	267	-22.793	-3.745	14.092	1.00150.04	C
ATOM	2069	CB	SER	267	-22.255	-5.004	14.785	1.00150.04	C
ATOM	2070	OG	SER	267	-22.061	-6.024	13.818	1.00150.04	O
ATOM	2071	C	SER	267	-22.921	-2.676	15.118	1.00150.04	C
ATOM	2072	O	SER	267	-21.939	-2.288	15.747	1.00150.04	O
ATOM	2073	N	ALA	268	-24.144	-2.159	15.319	1.00108.69	N
ATOM	2074	CA	ALA	268	-24.233	-1.065	16.234	1.00108.69	C
ATOM	2075	CB	ALA	268	-24.486	0.287	15.545	1.00108.69	C
ATOM	2076	C	ALA	268	-25.357	-1.289	17.182	1.00108.69	C
ATOM	2077	O	ALA	268	-26.339	-1.962	16.877	1.00108.69	O
ATOM	2078	N	GLN	269	-25.196	-0.708	18.383	1.00141.31	N
ATOM	2079	CA	GLN	269	-26.137	-0.772	19.457	1.00141.31	C
ATOM	2080	CB	GLN	269	-25.619	-0.098	20.739	1.00141.31	C
ATOM	2081	CG	GLN	269	-26.621	-0.148	21.895	1.00141.31	C
ATOM	2082	CD	GLN	269	-26.046	0.641	23.064	1.00141.31	C
ATOM	2083	OE1	GLN	269	-24.872	0.509	23.403	1.00141.31	O
ATOM	2084	NE2	GLN	269	-26.896	1.498	23.693	1.00141.31	N
ATOM	2085	C	GLN	269	-27.377	-0.035	19.071	1.00141.31	C
ATOM	2086	O	GLN	269	-28.476	-0.433	19.447	1.00141.31	O
ATOM	2087	N	LYS	270	-27.226	1.059	18.300	1.00251.37	N
ATOM	2088	CA	LYS	270	-28.302	1.962	17.995	1.00251.37	C
ATOM	2089	CB	LYS	270	-27.918	3.022	16.942	1.00251.37	C
ATOM	2090	CG	LYS	270	-28.853	4.232	16.886	1.00251.37	C
ATOM	2091	CD	LYS	270	-30.257	3.936	16.364	1.00251.37	C
ATOM	2092	CE	LYS	270	-30.365	4.083	14.845	1.00251.37	C
ATOM	2093	NZ	LYS	270	-30.193	5.501	14.462	1.00251.37	N
ATOM	2094	C	LYS	270	-29.517	1.215	17.530	1.00251.37	C
ATOM	2095	O	LYS	270	-29.436	0.224	16.806	1.00251.37	O
ATOM	2096	N	ASP	271	-30.689	1.680	18.008	1.00163.96	N
ATOM	2097	CA	ASP	271	-31.971	1.097	17.730	1.00163.96	C
ATOM	2098	CB	ASP	271	-32.948	1.194	18.913	1.00163.96	C
ATOM	2099	CG	ASP	271	-32.435	0.294	20.033	1.00163.96	C
ATOM	2100	OD1	ASP	271	-31.510	-0.516	19.761	1.00163.96	O
ATOM	2101	OD2	ASP	271	-32.960	0.401	21.174	1.00163.96	O
ATOM	2102	C	ASP	271	-32.601	1.829	16.584	1.00163.96	C
ATOM	2103	O	ASP	271	-32.000	1.997	15.526	1.00163.96	O
ATOM	2104	N	THR	272	-33.868	2.255	16.776	1.00312.69	N
ATOM	2105	CA	THR	272	-34.610	2.953	15.763	1.00312.69	C
ATOM	2106	CB	THR	272	-36.052	3.176	16.121	1.00312.69	C
ATOM	2107	OG1	THR	272	-36.153	4.004	17.270	1.00312.69	O
ATOM	2108	CG2	THR	272	-36.713	1.812	16.389	1.00312.69	C
ATOM	2109	C	THR	272	-33.970	4.297	15.569	1.00312.69	C
ATOM	2110	O	THR	272	-33.022	4.632	16.273	1.00312.69	O
ATOM	2111	N	VAL	273	-34.484	5.103	14.608	1.00510.13	N
ATOM	2112	CA	VAL	273	-33.837	6.326	14.211	1.00510.13	C
ATOM	2113	CB	VAL	273	-33.981	6.601	12.733	1.00510.13	C
ATOM	2114	CG1	VAL	273	-35.467	6.667	12.326	1.00510.13	C
ATOM	2115	CG2	VAL	273	-33.164	7.860	12.427	1.00510.13	C
ATOM	2116	C	VAL	273	-34.300	7.556	14.947	1.00510.13	C
ATOM	2117	O	VAL	273	-35.230	8.245	14.536	1.00510.13	O
ATOM	2118	N	ALA	274	-33.632	7.895	16.064	1.00164.10	N
ATOM	2119	CA	ALA	274	-33.943	9.118	16.750	1.00164.10	C
ATOM	2120	CB	ALA	274	-33.259	9.212	18.125	1.00164.10	C
ATOM	2121	C	ALA	274	-33.479	10.287	15.926	1.00164.10	C
ATOM	2122	O	ALA	274	-34.186	11.282	15.768	1.00164.10	O

ATOM	2123	N	SER	275	-32.261	10.164	15.363	1.00131.64	N
ATOM	2124	CA	SER	275	-31.587	11.216	14.655	1.00131.64	C
ATOM	2125	CB	SER	275	-30.164	10.808	14.231	1.00131.64	C
ATOM	2126	OG	SER	275	-30.217	9.699	13.345	1.00131.64	O
ATOM	2127	C	SER	275	-32.327	11.620	13.419	1.00131.64	C
ATOM	2128	O	SER	275	-32.475	12.814	13.163	1.00131.64	O
ATOM	2129	N	VAL	276	-32.801	10.653	12.607	1.00650.36	N
ATOM	2130	CA	VAL	276	-33.464	11.043	11.392	1.00650.36	C
ATOM	2131	CB	VAL	276	-33.945	9.944	10.492	1.00650.36	C
ATOM	2132	CG1	VAL	276	-34.867	10.563	9.425	1.00650.36	C
ATOM	2133	CG2	VAL	276	-32.715	9.257	9.873	1.00650.36	C
ATOM	2134	C	VAL	276	-34.702	11.799	11.710	1.00650.36	C
ATOM	2135	O	VAL	276	-34.993	12.805	11.070	1.00650.36	O
ATOM	2136	N	MET	277	-35.475	11.333	12.704	1.00318.15	N
ATOM	2137	CA	MET	277	-36.721	11.989	12.985	1.00318.15	C
ATOM	2138	CB	MET	277	-37.585	11.298	14.057	1.00318.15	C
ATOM	2139	CG	MET	277	-36.953	11.332	15.453	1.00318.15	C
ATOM	2140	SD	MET	277	-37.931	10.527	16.756	1.00318.15	S
ATOM	2141	CE	MET	277	-39.152	11.861	16.921	1.00318.15	C
ATOM	2142	C	MET	277	-36.440	13.385	13.451	1.00318.15	C
ATOM	2143	O	MET	277	-37.213	14.299	13.178	1.00318.15	O
ATOM	2144	N	TYR	278	-35.332	13.585	14.188	1.00175.24	N
ATOM	2145	CA	TYR	278	-34.984	14.870	14.731	1.00175.24	C
ATOM	2146	CB	TYR	278	-33.732	14.771	15.620	1.00175.24	C
ATOM	2147	CG	TYR	278	-33.403	16.106	16.192	1.00175.24	C
ATOM	2148	CD1	TYR	278	-34.170	16.631	17.206	1.00175.24	C
ATOM	2149	CD2	TYR	278	-32.313	16.816	15.741	1.00175.24	C
ATOM	2150	CE1	TYR	278	-33.872	17.858	17.748	1.00175.24	C
ATOM	2151	CE2	TYR	278	-32.010	18.043	16.281	1.00175.24	C
ATOM	2152	CZ	TYR	278	-32.790	18.566	17.284	1.00175.24	C
ATOM	2153	OH	TYR	278	-32.480	19.825	17.840	1.00175.24	O
ATOM	2154	C	TYR	278	-34.712	15.841	13.613	1.00175.24	C
ATOM	2155	O	TYR	278	-35.134	16.998	13.661	1.00175.24	O
ATOM	2156	N	THR	279	-34.003	15.389	12.565	1.00679.25	N
ATOM	2157	CA	THR	279	-33.664	16.257	11.471	1.00679.25	C
ATOM	2158	CB	THR	279	-32.791	15.616	10.430	1.00679.25	C
ATOM	2159	OG1	THR	279	-32.219	16.615	9.598	1.00679.25	O
ATOM	2160	CG2	THR	279	-33.648	14.670	9.572	1.00679.25	C
ATOM	2161	C	THR	279	-34.928	16.676	10.799	1.00679.25	C
ATOM	2162	O	THR	279	-35.043	17.783	10.278	1.00679.25	O
ATOM	2163	N	VAL	280	-35.922	15.782	10.832	1.00355.87	N
ATOM	2164	CA	VAL	280	-37.184	15.930	10.176	1.00355.87	C
ATOM	2165	CB	VAL	280	-38.068	14.756	10.488	1.00355.87	C
ATOM	2166	CG1	VAL	280	-39.158	15.196	11.481	1.00355.87	C
ATOM	2167	CG2	VAL	280	-38.487	14.046	9.193	1.00355.87	C
ATOM	2168	C	VAL	280	-37.842	17.175	10.722	1.00355.87	C
ATOM	2169	O	VAL	280	-38.641	17.804	10.034	1.00355.87	O
ATOM	2170	N	VAL	281	-37.550	17.535	11.993	1.00394.60	N
ATOM	2171	CA	VAL	281	-38.104	18.671	12.698	1.00394.60	C
ATOM	2172	CB	VAL	281	-37.679	18.734	14.137	1.00394.60	C
ATOM	2173	CG1	VAL	281	-38.232	20.030	14.753	1.00394.60	C
ATOM	2174	CG2	VAL	281	-38.151	17.454	14.847	1.00394.60	C
ATOM	2175	C	VAL	281	-37.674	19.959	12.080	1.00394.60	C
ATOM	2176	O	VAL	281	-38.408	20.948	12.116	1.00394.60	O
ATOM	2177	N	THR	282	-36.464	19.992	11.500	1.00688.80	N
ATOM	2178	CA	THR	282	-36.004	21.235	10.957	1.00688.80	C
ATOM	2179	CB	THR	282	-34.628	21.258	10.340	1.00688.80	C
ATOM	2180	OG1	THR	282	-34.398	20.151	9.482	1.00688.80	O
ATOM	2181	CG2	THR	282	-33.576	21.372	11.436	1.00688.80	C
ATOM	2182	C	THR	282	-36.963	21.757	9.943	1.00688.80	C
ATOM	2183	O	THR	282	-37.084	22.974	9.840	1.00688.80	O
ATOM	2184	N	PRO	283	-37.664	20.942	9.206	1.00553.46	N
ATOM	2185	CA	PRO	283	-38.577	21.505	8.261	1.00553.46	C
ATOM	2186	CD	PRO	283	-37.097	19.710	8.683	1.00553.46	C
ATOM	2187	CB	PRO	283	-39.112	20.325	7.459	1.00553.46	C
ATOM	2188	CG	PRO	283	-37.892	19.387	7.404	1.00553.46	C
ATOM	2189	C	PRO	283	-39.593	22.422	8.871	1.00553.46	C
ATOM	2190	O	PRO	283	-40.184	23.197	8.123	1.00553.46	O
ATOM	2191	N	MET	284	-39.906	22.278	10.173	1.00443.99	N
ATOM	2192	CA	MET	284	-40.786	23.176	10.881	1.00443.99	C
ATOM	2193	CB	MET	284	-41.339	22.533	12.165	1.00443.99	C
ATOM	2194	CG	MET	284	-42.488	23.299	12.825	1.00443.99	C
ATOM	2195	SD	MET	284	-42.014	24.826	13.689	1.00443.99	S
ATOM	2196	CE	MET	284	-43.702	25.229	14.221	1.00443.99	C
ATOM	2197	C	MET	284	-40.147	24.494	11.269	1.00443.99	C
ATOM	2198	O	MET	284	-40.786	25.543	11.204	1.00443.99	O
ATOM	2199	N	LEU	285	-38.861	24.482	11.681	1.00311.94	N

ATOM	2200	CA	LEU	285	-38.266	25.630	12.322	1.00311.94	C
ATOM	2201	CB	LEU	285	-36.878	25.392	12.927	1.00311.94	C
ATOM	2202	CG	LEU	285	-36.442	26.640	13.714	1.00311.94	C
ATOM	2203	CD1	LEU	285	-37.357	26.834	14.934	1.00311.94	C
ATOM	2204	CD2	LEU	285	-34.949	26.630	14.068	1.00311.94	C
ATOM	2205	C	LEU	285	-38.103	26.837	11.457	1.00311.94	C
ATOM	2206	O	LEU	285	-38.248	27.955	11.943	1.00311.94	O
ATOM	2207	N	ASN	286	-37.785	26.667	10.167	1.00309.73	N
ATOM	2208	CA	ASN	286	-37.434	27.803	9.365	1.00309.73	C
ATOM	2209	CB	ASN	286	-37.123	27.427	7.906	1.00309.73	C
ATOM	2210	CG	ASN	286	-36.724	28.691	7.160	1.00309.73	C
ATOM	2211	OD1	ASN	286	-37.549	29.565	6.903	1.00309.73	O
ATOM	2212	ND2	ASN	286	-35.420	28.796	6.794	1.00309.73	N
ATOM	2213	C	ASN	286	-38.524	28.825	9.352	1.00309.73	C
ATOM	2214	O	ASN	286	-38.219	30.009	9.469	1.00309.73	O
ATOM	2215	N	PRO	287	-39.769	28.476	9.205	1.00286.55	N
ATOM	2216	CA	PRO	287	-40.778	29.494	9.194	1.00286.55	C
ATOM	2217	CD	PRO	287	-40.175	27.307	8.448	1.00286.55	C
ATOM	2218	CB	PRO	287	-42.070	28.802	8.743	1.00286.55	C
ATOM	2219	CG	PRO	287	-41.701	27.305	8.631	1.00286.55	C
ATOM	2220	C	PRO	287	-40.843	30.219	10.495	1.00286.55	C
ATOM	2221	O	PRO	287	-41.118	31.418	10.496	1.00286.55	O
ATOM	2222	N	PHE	288	-40.592	29.514	11.609	1.00217.14	N
ATOM	2223	CA	PHE	288	-40.642	30.117	12.905	1.00217.14	C
ATOM	2224	CB	PHE	288	-40.478	29.060	14.013	1.00217.14	C
ATOM	2225	CG	PHE	288	-40.560	29.695	15.358	1.00217.14	C
ATOM	2226	CD1	PHE	288	-41.775	29.822	15.989	1.00217.14	C
ATOM	2227	CD2	PHE	288	-39.428	30.154	15.992	1.00217.14	C
ATOM	2228	CE1	PHE	288	-41.865	30.402	17.233	1.00217.14	C
ATOM	2229	CE2	PHE	288	-39.512	30.732	17.235	1.00217.14	C
ATOM	2230	CZ	PHE	288	-40.731	30.858	17.858	1.00217.14	C
ATOM	2231	C	PHE	288	-39.526	31.109	13.011	1.00217.14	C
ATOM	2232	O	PHE	288	-39.721	32.244	13.445	1.00217.14	O
ATOM	2233	N	ILE	289	-38.320	30.693	12.591	1.00212.93	N
ATOM	2234	CA	ILE	289	-37.140	31.501	12.700	1.00212.93	C
ATOM	2235	CB	ILE	289	-35.900	30.726	12.338	1.00212.93	C
ATOM	2236	CG2	ILE	289	-35.878	30.455	10.825	1.00212.93	C
ATOM	2237	CG1	ILE	289	-34.643	31.437	12.845	1.00212.93	C
ATOM	2238	CD1	ILE	289	-33.416	30.534	12.763	1.00212.93	C
ATOM	2239	C	ILE	289	-37.268	32.700	11.819	1.00212.93	C
ATOM	2240	O	ILE	289	-36.898	33.805	12.210	1.00212.93	O
ATOM	2241	N	TYR	290	-37.801	32.505	10.599	1.00238.07	N
ATOM	2242	CA	TYR	290	-37.899	33.564	9.641	1.00238.07	C
ATOM	2243	CB	TYR	290	-38.387	33.032	8.281	1.00238.07	C
ATOM	2244	CG	TYR	290	-37.966	33.976	7.208	1.00238.07	C
ATOM	2245	CD1	TYR	290	-36.626	34.161	6.956	1.00238.07	C
ATOM	2246	CD2	TYR	290	-38.883	34.632	6.423	1.00238.07	C
ATOM	2247	CE1	TYR	290	-36.198	35.010	5.965	1.00238.07	C
ATOM	2248	CE2	TYR	290	-38.461	35.484	5.428	1.00238.07	C
ATOM	2249	CZ	TYR	290	-37.120	35.678	5.198	1.00238.07	C
ATOM	2250	OH	TYR	290	-36.691	36.551	4.175	1.00238.07	O
ATOM	2251	C	TYR	290	-38.860	34.566	10.180	1.00238.07	C
ATOM	2252	O	TYR	290	-38.651	35.773	10.080	1.00238.07	O
ATOM	2253	N	SER	291	-39.963	34.079	10.768	1.00143.72	N
ATOM	2254	CA	SER	291	-40.985	34.960	11.247	1.00143.72	C
ATOM	2255	CB	SER	291	-42.212	34.197	11.772	1.00143.72	C
ATOM	2256	OG	SER	291	-42.791	33.435	10.723	1.00143.72	O
ATOM	2257	C	SER	291	-40.478	35.818	12.366	1.00143.72	C
ATOM	2258	O	SER	291	-40.683	37.030	12.361	1.00143.72	O
ATOM	2259	N	LEU	292	-39.789	35.223	13.357	1.00 82.26	N
ATOM	2260	CA	LEU	292	-39.392	36.012	14.489	1.00 82.26	C
ATOM	2261	CB	LEU	292	-38.625	35.216	15.558	1.00 82.26	C
ATOM	2262	CG	LEU	292	-39.438	34.108	16.247	1.00 82.26	C
ATOM	2263	CD1	LEU	292	-38.667	33.545	17.451	1.00 82.26	C
ATOM	2264	CD2	LEU	292	-40.856	34.579	16.603	1.00 82.26	C
ATOM	2265	C	LEU	292	-38.453	37.087	14.060	1.00 82.26	C
ATOM	2266	O	LEU	292	-38.617	38.252	14.416	1.00 82.26	O
ATOM	2267	N	ARG	293	-37.437	36.697	13.277	1.00241.49	N
ATOM	2268	CA	ARG	293	-36.368	37.547	12.852	1.00241.49	C
ATOM	2269	CB	ARG	293	-35.175	36.767	12.272	1.00241.49	C
ATOM	2270	CG	ARG	293	-34.461	35.893	13.307	1.00241.49	C
ATOM	2271	CD	ARG	293	-33.764	36.682	14.419	1.00241.49	C
ATOM	2272	NE	ARG	293	-34.795	36.977	15.451	1.00241.49	N
ATOM	2273	CZ	ARG	293	-34.435	37.493	16.661	1.00241.49	C
ATOM	2274	NH1	ARG	293	-33.124	37.770	16.926	1.00241.49	N
ATOM	2275	NH2	ARG	293	-35.390	37.730	17.606	1.00241.49	N
ATOM	2276	C	ARG	293	-36.780	38.570	11.843	1.00241.49	C

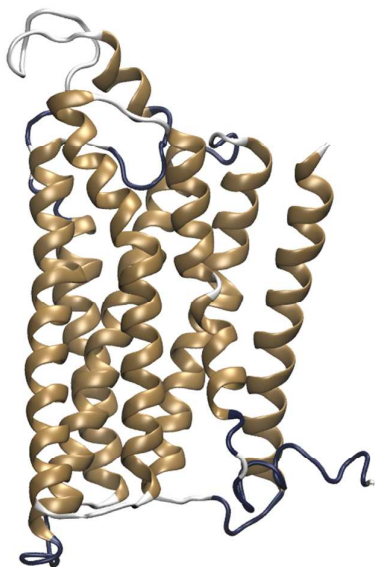
ATOM	2277	O	ARG	293	-36.178	39.641	11.797	1.00241.49	O
ATOM	2278	N	ASN	294	-37.777	38.275	10.985	1.00210.68	N
ATOM	2279	CA	ASN	294	-38.045	39.190	9.914	1.00210.68	C
ATOM	2280	CB	ASN	294	-38.152	38.439	8.572	1.00210.68	C
ATOM	2281	CG	ASN	294	-37.808	39.375	7.425	1.00210.68	C
ATOM	2282	OD1	ASN	294	-38.622	39.617	6.536	1.00210.68	O
ATOM	2283	ND2	ASN	294	-36.556	39.907	7.436	1.00210.68	N
ATOM	2284	C	ASN	294	-39.326	39.925	10.174	1.00210.68	C
ATOM	2285	O	ASN	294	-40.403	39.339	10.249	1.00210.68	O
ATOM	2286	N	GLN	295	-39.221	41.257	10.335	1.00112.93	N
ATOM	2287	CA	GLN	295	-40.357	42.096	10.571	1.00112.93	C
ATOM	2288	CB	GLN	295	-39.958	43.531	10.947	1.00112.93	C
ATOM	2289	CG	GLN	295	-39.307	43.626	12.329	1.00112.93	C
ATOM	2290	CD	GLN	295	-37.994	42.856	12.312	1.00112.93	C
ATOM	2291	OE1	GLN	295	-37.844	41.853	13.008	1.00112.93	O
ATOM	2292	NE2	GLN	295	-37.015	43.334	11.498	1.00112.93	N
ATOM	2293	C	GLN	295	-41.197	42.153	9.331	1.00112.93	C
ATOM	2294	O	GLN	295	-42.423	42.147	9.401	1.00112.93	O
ATOM	2295	N	GLU	296	-40.547	42.206	8.154	1.00125.54	N
ATOM	2296	CA	GLU	296	-41.252	42.347	6.912	1.00125.54	C
ATOM	2297	CB	GLU	296	-40.290	42.384	5.711	1.00125.54	C
ATOM	2298	CG	GLU	296	-40.922	42.871	4.407	1.00125.54	C
ATOM	2299	CD	GLU	296	-40.789	44.385	4.375	1.00125.54	C
ATOM	2300	OE1	GLU	296	-40.147	44.940	5.305	1.00125.54	O
ATOM	2301	OE2	GLU	296	-41.316	45.008	3.418	1.00125.54	O
ATOM	2302	C	GLU	296	-42.139	41.162	6.719	1.00125.54	C
ATOM	2303	O	GLU	296	-43.319	41.302	6.402	1.00125.54	O
ATOM	2304	N	ILE	297	-41.584	39.950	6.905	1.00149.59	N
ATOM	2305	CA	ILE	297	-42.382	38.780	6.707	1.00149.59	C
ATOM	2306	CB	ILE	297	-41.635	37.486	6.740	1.00149.59	C
ATOM	2307	CG2	ILE	297	-40.550	37.553	5.654	1.00149.59	C
ATOM	2308	CG1	ILE	297	-41.088	37.203	8.140	1.00149.59	C
ATOM	2309	CD1	ILE	297	-40.833	35.718	8.345	1.00149.59	C
ATOM	2310	C	ILE	297	-43.405	38.715	7.791	1.00149.59	C
ATOM	2311	O	ILE	297	-44.553	38.344	7.560	1.00149.59	O
ATOM	2312	N	LYS	298	-43.001	39.080	9.019	1.00158.17	N
ATOM	2313	CA	LYS	298	-43.866	38.961	10.151	1.00158.17	C
ATOM	2314	CB	LYS	298	-43.176	39.418	11.449	1.00158.17	C
ATOM	2315	CG	LYS	298	-43.875	38.967	12.731	1.00158.17	C
ATOM	2316	CD	LYS	298	-45.239	39.611	12.962	1.00158.17	C
ATOM	2317	CE	LYS	298	-45.141	40.986	13.621	1.00158.17	C
ATOM	2318	NZ	LYS	298	-44.483	40.859	14.941	1.00158.17	N
ATOM	2319	C	LYS	298	-45.067	39.807	9.887	1.00158.17	C
ATOM	2320	O	LYS	298	-46.192	39.417	10.195	1.00158.17	O
ATOM	2321	N	SER	299	-44.855	40.991	9.289	1.00 82.28	N
ATOM	2322	CA	SER	299	-45.946	41.862	8.979	1.00 82.28	C
ATOM	2323	CB	SER	299	-45.486	43.161	8.299	1.00 82.28	C
ATOM	2324	OG	SER	299	-46.613	43.945	7.940	1.00 82.28	O
ATOM	2325	C	SER	299	-46.848	41.169	8.010	1.00 82.28	C
ATOM	2326	O	SER	299	-48.064	41.135	8.191	1.00 82.28	O
ATOM	2327	N	SER	300	-46.264	40.573	6.955	1.00 96.81	N
ATOM	2328	CA	SER	300	-47.072	39.965	5.944	1.00 96.81	C
ATOM	2329	CB	SER	300	-46.257	39.450	4.747	1.00 96.81	C
ATOM	2330	OG	SER	300	-47.143	39.109	3.691	1.00 96.81	O
ATOM	2331	C	SER	300	-47.820	38.820	6.549	1.00 96.81	C
ATOM	2332	O	SER	300	-48.979	38.585	6.215	1.00 96.81	O
ATOM	2333	N	LEU	301	-47.170	38.075	7.460	1.00 64.75	N
ATOM	2334	CA	LEU	301	-47.805	36.952	8.084	1.00 64.75	C
ATOM	2335	CB	LEU	301	-46.856	36.170	9.004	1.00 64.75	C
ATOM	2336	CG	LEU	301	-45.649	35.562	8.265	1.00 64.75	C
ATOM	2337	CD1	LEU	301	-44.732	34.794	9.229	1.00 64.75	C
ATOM	2338	CD2	LEU	301	-46.099	34.713	7.066	1.00 64.75	C
ATOM	2339	C	LEU	301	-48.942	37.439	8.927	1.00 64.75	C
ATOM	2340	O	LEU	301	-50.039	36.890	8.867	1.00 64.75	O
ATOM	2341	N	ARG	302	-48.728	38.516	9.708	1.00181.67	N
ATOM	2342	CA	ARG	302	-49.738	38.986	10.615	1.00181.67	C
ATOM	2343	CB	ARG	302	-49.327	40.263	11.360	1.00181.67	C
ATOM	2344	CG	ARG	302	-48.029	40.104	12.153	1.00181.67	C
ATOM	2345	CD	ARG	302	-48.204	39.550	13.568	1.00181.67	C
ATOM	2346	NE	ARG	302	-48.747	40.644	14.421	1.00181.67	N
ATOM	2347	CZ	ARG	302	-48.371	40.741	15.731	1.00181.67	C
ATOM	2348	NH1	ARG	302	-47.480	39.848	16.255	1.00181.67	N
ATOM	2349	NH2	ARG	302	-48.875	41.738	16.514	1.00181.67	N
ATOM	2350	C	ARG	302	-50.930	39.334	9.805	1.00181.67	C
ATOM	2351	O	ARG	302	-52.060	39.035	10.187	1.00181.67	O
ATOM	2352	N	LYS	303	-50.706	39.986	8.654	1.00 81.22	N
ATOM	2353	CA	LYS	303	-51.813	40.344	7.827	1.00 81.22	C

ATOM	2354	CB	LYS	303	-51.397	41.098	6.551	1.00	81.22	C
ATOM	2355	CG	LYS	303	-50.840	42.502	6.801	1.00	81.22	C
ATOM	2356	CD	LYS	303	-50.120	43.089	5.585	1.00	81.22	C
ATOM	2357	CE	LYS	303	-49.608	44.514	5.797	1.00	81.22	C
ATOM	2358	NZ	LYS	303	-50.749	45.457	5.848	1.00	81.22	N
ATOM	2359	C	LYS	303	-52.474	39.075	7.399	1.00	81.22	C
ATOM	2360	O	LYS	303	-53.698	38.992	7.343	1.00	81.22	O
ATOM	2361	N	LEU	304	-51.674	38.045	7.070	1.00116.24		N
ATOM	2362	CA	LEU	304	-52.239	36.822	6.581	1.00116.24		C
ATOM	2363	CB	LEU	304	-51.134	35.867	6.079	1.00116.24		C
ATOM	2364	CG	LEU	304	-51.589	34.654	5.238	1.00116.24		C
ATOM	2365	CD1	LEU	304	-50.378	33.806	4.825	1.00116.24		C
ATOM	2366	CD2	LEU	304	-52.671	33.808	5.929	1.00116.24		C
ATOM	2367	C	LEU	304	-53.046	36.151	7.664	1.00116.24		C
ATOM	2368	O	LEU	304	-54.191	35.770	7.426	1.00116.24		O
ATOM	2369	N	ILE	305	-52.496	36.007	8.893	1.00110.00		N
ATOM	2370	CA	ILE	305	-53.214	35.288	9.914	1.00110.00		C
ATOM	2371	CB	ILE	305	-52.435	35.088	11.185	1.00110.00		C
ATOM	2372	CG2	ILE	305	-53.440	34.708	12.284	1.00110.00		C
ATOM	2373	CG1	ILE	305	-51.324	34.035	10.997	1.00110.00		C
ATOM	2374	CD1	ILE	305	-50.222	34.416	10.013	1.00110.00		C
ATOM	2375	C	ILE	305	-54.468	36.014	10.241	1.00110.00		C
ATOM	2376	O	ILE	305	-55.550	35.432	10.198	1.00110.00		O
ATOM	2377	N	TRP	306	-54.379	37.317	10.550	1.00154.53		N
ATOM	2378	CA	TRP	306	-55.622	37.994	10.733	1.00154.53		C
ATOM	2379	CB	TRP	306	-55.518	39.228	11.645	1.00154.53		C
ATOM	2380	CG	TRP	306	-55.091	38.934	13.066	1.00154.53		C
ATOM	2381	CD2	TRP	306	-53.734	39.036	13.525	1.00154.53		C
ATOM	2382	CD1	TRP	306	-55.839	38.571	14.149	1.00154.53		C
ATOM	2383	NE1	TRP	306	-55.030	38.433	15.252	1.00154.53		N
ATOM	2384	CE2	TRP	306	-53.732	38.720	14.883	1.00154.53		C
ATOM	2385	CE3	TRP	306	-52.585	39.373	12.869	1.00154.53		C
ATOM	2386	CZ2	TRP	306	-52.574	38.735	15.607	1.00154.53		C
ATOM	2387	CZ3	TRP	306	-51.419	39.383	13.600	1.00154.53		C
ATOM	2388	CH2	TRP	306	-51.414	39.070	14.944	1.00154.53		C
ATOM	2389	C	TRP	306	-55.869	38.449	9.344	1.00154.53		C
ATOM	2390	O	TRP	306	-55.525	39.573	8.987	1.00154.53		O
ATOM	2391	N	VAL	307	-56.555	37.593	8.561	1.00131.44		N
ATOM	2392	CA	VAL	307	-56.574	37.709	7.131	1.00131.44		C
ATOM	2393	CB	VAL	307	-57.554	36.768	6.496	1.00131.44		C
ATOM	2394	CG1	VAL	307	-57.543	37.002	4.976	1.00131.44		C
ATOM	2395	CG2	VAL	307	-57.191	35.331	6.910	1.00131.44		C
ATOM	2396	C	VAL	307	-56.927	39.083	6.692	1.00131.44		C
ATOM	2397	O	VAL	307	-56.170	39.709	5.953	1.00131.44		O
ATOM	2398	N	ARG	308	-58.074	39.610	7.128	1.00202.00		N
ATOM	2399	CA	ARG	308	-58.376	40.936	6.692	1.00202.00		C
ATOM	2400	CB	ARG	308	-59.784	41.395	7.096	1.00202.00		C
ATOM	2401	CG	ARG	308	-60.907	40.693	6.338	1.00202.00		C
ATOM	2402	CD	ARG	308	-62.250	41.402	6.505	1.00202.00		C
ATOM	2403	NE	ARG	308	-61.972	42.866	6.441	1.00202.00		N
ATOM	2404	CZ	ARG	308	-61.835	43.488	5.233	1.00202.00		C
ATOM	2405	NH1	ARG	308	-61.942	42.772	4.076	1.00202.00		N
ATOM	2406	NH2	ARG	308	-61.588	44.830	5.182	1.00202.00		N
ATOM	2407	C	ARG	308	-57.426	41.889	7.333	1.00202.00		C
ATOM	2408	O	ARG	308	-56.874	42.775	6.682	1.00202.00		O
ATOM	2409	N	LYS	309	-57.154	41.652	8.626	1.00287.29		N
ATOM	2410	CA	LYS	309	-56.498	42.588	9.488	1.00287.29		C
ATOM	2411	CB	LYS	309	-56.054	42.007	10.839	1.00287.29		C
ATOM	2412	CG	LYS	309	-55.393	43.048	11.745	1.00287.29		C
ATOM	2413	CD	LYS	309	-55.203	42.592	13.193	1.00287.29		C
ATOM	2414	CE	LYS	309	-54.526	43.644	14.077	1.00287.29		C
ATOM	2415	NZ	LYS	309	-54.505	43.192	15.485	1.00287.29		N
ATOM	2416	C	LYS	309	-55.321	43.263	8.890	1.00287.29		C
ATOM	2417	O	LYS	309	-54.582	42.714	8.076	1.00287.29		O
ATOM	2418	N	ILE	310	-55.175	44.540	9.296	1.00271.68		N
ATOM	2419	CA	ILE	310	-54.065	45.365	8.949	1.00271.68		C
ATOM	2420	CB	ILE	310	-54.264	46.821	9.253	1.00271.68		C
ATOM	2421	CG2	ILE	310	-52.914	47.530	9.051	1.00271.68		C
ATOM	2422	CG1	ILE	310	-55.400	47.400	8.395	1.00271.68		C
ATOM	2423	CD1	ILE	310	-56.773	46.818	8.725	1.00271.68		C
ATOM	2424	C	ILE	310	-52.955	44.870	9.807	1.00271.68		C
ATOM	2425	O	ILE	310	-53.174	44.449	10.940	1.00271.68		O
ATOM	2426	N	HIS	311	-51.727	44.878	9.272	1.00176.98		N
ATOM	2427	CA	HIS	311	-50.635	44.318	10.007	1.00176.98		C
ATOM	2428	ND1	HIS	311	-49.255	46.502	7.992	1.00176.98		N
ATOM	2429	CG	HIS	311	-48.721	45.607	8.889	1.00176.98		C
ATOM	2430	CB	HIS	311	-49.319	44.271	9.212	1.00176.98		C

Accepted Article

ATOM	2431	NE2	HIS	311	-47.390	47.423	8.775	1.00176.98	N
ATOM	2432	CD2	HIS	311	-47.584	46.183	9.359	1.00176.98	C
ATOM	2433	CE1	HIS	311	-48.419	47.570	7.962	1.00176.98	C
ATOM	2434	C	HIS	311	-50.440	45.087	11.267	1.00176.98	C
ATOM	2435	O	HIS	311	-50.065	44.509	12.286	1.00176.98	O
ATOM	2436	N	SER	312	-50.677	46.414	11.211	1.00159.20	N
ATOM	2437	CA	SER	312	-50.596	47.272	12.361	1.00159.20	C
ATOM	2438	CB	SER	312	-51.772	47.101	13.340	1.00159.20	C
ATOM	2439	OG	SER	312	-51.758	45.798	13.905	1.00159.20	O
ATOM	2440	C	SER	312	-49.325	47.010	13.097	1.00159.20	C
ATOM	2441	O	SER	312	-49.330	46.603	14.258	1.00159.20	O
ATOM	2442	N	PRO	313	-48.245	47.235	12.401	1.00 75.88	N
ATOM	2443	CA	PRO	313	-46.931	46.992	12.934	1.00 75.88	C
ATOM	2444	CD	PRO	313	-48.232	48.332	11.446	1.00 75.88	C
ATOM	2445	CB	PRO	313	-45.967	47.623	11.933	1.00 75.88	C
ATOM	2446	CG	PRO	313	-46.774	48.819	11.399	1.00 75.88	C
ATOM	2447	C	PRO	313	-46.809	47.649	14.269	1.00 75.88	C
ATOM	2448	O	PRO	313	-47.547	48.640	14.515	1.00 75.88	O
ATOM	2449	OXT	PRO	313	-45.959	47.190	15.077	1.00 75.88	O
TER	2450		PRO	313					
END									

PDB and structure of OR1G1 built by an *ab initio* protocol.



ATOM	1	N	GLU	A	22	22.554	-16.212	18.710	0.00	0.00	N1+
ATOM	2	CA	GLU	A	22	23.204	-15.188	17.964	0.00	0.00	C
ATOM	3	C	GLU	A	22	22.771	-15.111	16.574	0.00	0.00	C
ATOM	4	O	GLU	A	22	23.223	-14.226	15.851	0.00	0.00	O
ATOM	5	CB	GLU	A	22	24.736	-15.386	18.085	0.00	0.00	C
ATOM	6	CG	GLU	A	22	25.268	-15.281	19.545	0.00	0.00	C
ATOM	7	CD	GLU	A	22	26.418	-14.382	19.697	0.00	0.00	C
ATOM	8	OE1	GLU	A	22	27.257	-14.219	18.784	0.00	0.00	O
ATOM	9	OE2	GLU	A	22	26.457	-13.562	20.637	0.00	0.00	O1-
ATOM	10	N	GLU	A	23	21.856	-15.933	16.105	0.00	0.00	N
ATOM	11	CA	GLU	A	23	21.286	-15.989	14.795	0.00	0.00	C
ATOM	12	C	GLU	A	23	20.716	-14.703	14.324	0.00	0.00	C
ATOM	13	O	GLU	A	23	20.590	-14.478	13.096	0.00	0.00	O
ATOM	14	CB	GLU	A	23	20.250	-17.147	14.779	0.00	0.00	C
ATOM	15	CG	GLU	A	23	19.102	-17.045	15.825	0.00	0.00	C
ATOM	16	CD	GLU	A	23	19.440	-17.329	17.234	0.00	0.00	C
ATOM	17	OE1	GLU	A	23	20.539	-17.812	17.585	0.00	0.00	O
ATOM	18	OE2	GLU	A	23	18.604	-17.058	18.122	0.00	0.00	O1-
ATOM	19	N	GLN	A	24	20.446	-13.724	15.210	0.00	0.00	N
ATOM	20	CA	GLN	A	24	20.138	-12.368	14.913	0.00	0.00	C
ATOM	21	C	GLN	A	24	21.157	-11.756	14.019	0.00	0.00	C
ATOM	22	O	GLN	A	24	20.787	-10.984	13.104	0.00	0.00	O
ATOM	23	CB	GLN	A	24	20.069	-11.607	16.269	0.00	0.00	C
ATOM	24	CG	GLN	A	24	18.997	-12.098	17.285	0.00	0.00	C
ATOM	25	CD	GLN	A	24	19.178	-13.483	17.747	0.00	0.00	C
ATOM	26	OE1	GLN	A	24	20.320	-13.918	18.006	0.00	0.00	O
ATOM	27	NE2	GLN	A	24	18.154	-14.332	17.832	0.00	0.00	N
ATOM	28	N	LYS	A	25	22.471	-12.052	14.147	0.00	0.00	N
ATOM	29	CA	LYS	A	25	23.523	-11.438	13.386	0.00	0.00	C
ATOM	30	C	LYS	A	25	23.495	-11.787	11.927	0.00	0.00	C
ATOM	31	O	LYS	A	25	23.424	-10.830	11.111	0.00	0.00	O
ATOM	32	CB	LYS	A	25	24.884	-11.736	14.075	0.00	0.00	C
ATOM	33	CG	LYS	A	25	24.948	-11.215	15.535	0.00	0.00	C
ATOM	34	CD	LYS	A	25	26.346	-11.424	16.167	0.00	0.00	C
ATOM	35	CE	LYS	A	25	26.419	-10.957	17.637	0.00	0.00	C
ATOM	36	NZ	LYS	A	25	25.746	-11.904	18.524	0.00	0.00	N1+
ATOM	37	N	PRO	A	26	23.503	-13.052	11.408	0.00	0.00	N
ATOM	38	CA	PRO	A	26	23.329	-13.317	10.002	0.00	0.00	C
ATOM	39	C	PRO	A	26	22.038	-12.828	9.462	0.00	0.00	C
ATOM	40	O	PRO	A	26	21.998	-12.347	8.300	0.00	0.00	O
ATOM	41	CB	PRO	A	26	23.464	-14.848	9.866	0.00	0.00	C
ATOM	42	CG	PRO	A	26	23.199	-15.376	11.276	0.00	0.00	C
ATOM	43	CD	PRO	A	26	23.699	-14.240	12.175	0.00	0.00	C
ATOM	44	N	LEU	A	27	20.926	-12.854	10.229	0.00	0.00	N
ATOM	45	CA	LEU	A	27	19.686	-12.244	9.859	0.00	0.00	C
ATOM	46	C	LEU	A	27	19.849	-10.789	9.602	0.00	0.00	C

ATOM	47	O	LEU	A	27	19.565	-10.348	8.462	0.00	0.00	O
ATOM	48	CB	LEU	A	27	18.649	-12.563	10.968	0.00	0.00	C
ATOM	49	CG	LEU	A	27	17.718	-13.757	10.622	0.00	0.00	C
ATOM	50	CD1	LEU	A	27	18.466	-15.105	10.523	0.00	0.00	C
ATOM	51	CD2	LEU	A	27	16.591	-13.871	11.670	0.00	0.00	C
ATOM	52	N	PHE	A	28	20.371	-9.957	10.534	0.00	0.00	N
ATOM	53	CA	PHE	A	28	20.713	-8.581	10.297	0.00	0.00	C
ATOM	54	C	PHE	A	28	21.514	-8.415	9.059	0.00	0.00	C
ATOM	55	O	PHE	A	28	21.120	-7.596	8.195	0.00	0.00	O
ATOM	56	CB	PHE	A	28	21.443	-8.018	11.545	0.00	0.00	C
ATOM	57	CG	PHE	A	28	21.967	-6.644	11.366	0.00	0.00	C
ATOM	58	CD1	PHE	A	28	23.313	-6.443	11.012	0.00	0.00	C
ATOM	59	CD2	PHE	A	28	21.138	-5.524	11.544	0.00	0.00	C
ATOM	60	CE1	PHE	A	28	23.814	-5.149	10.823	0.00	0.00	C
ATOM	61	CE2	PHE	A	28	21.638	-4.229	11.355	0.00	0.00	C
ATOM	62	CZ	PHE	A	28	22.976	-4.041	10.993	0.00	0.00	C
ATOM	63	N	GLY	A	29	22.613	-9.171	8.841	0.00	0.00	N
ATOM	64	CA	GLY	A	29	23.370	-9.143	7.621	0.00	0.00	C
ATOM	65	C	GLY	A	29	22.557	-9.300	6.393	0.00	0.00	C
ATOM	66	O	GLY	A	29	22.586	-8.427	5.490	0.00	0.00	O
ATOM	67	N	SER	A	30	21.761	-10.381	6.270	0.00	0.00	N
ATOM	68	CA	SER	A	30	20.872	-10.622	5.169	0.00	0.00	C
ATOM	69	C	SER	A	30	19.919	-9.506	4.940	0.00	0.00	C
ATOM	70	O	SER	A	30	19.783	-8.997	3.801	0.00	0.00	O
ATOM	71	CB	SER	A	30	20.103	-11.943	5.410	0.00	0.00	C
ATOM	72	OG	SER	A	30	20.988	-13.004	5.771	0.00	0.00	O
ATOM	73	N	PHE	A	31	19.208	-9.009	5.970	0.00	0.00	N
ATOM	74	CA	PHE	A	31	18.286	-7.917	5.849	0.00	0.00	C
ATOM	75	C	PHE	A	31	18.932	-6.649	5.420	0.00	0.00	C
ATOM	76	O	PHE	A	31	18.416	-5.977	4.493	0.00	0.00	O
ATOM	77	CB	PHE	A	31	17.498	-7.790	7.177	0.00	0.00	C
ATOM	78	CG	PHE	A	31	16.865	-9.056	7.630	0.00	0.00	C
ATOM	79	CD1	PHE	A	31	16.303	-9.982	6.728	0.00	0.00	C
ATOM	80	CD2	PHE	A	31	16.812	-9.348	9.004	0.00	0.00	C
ATOM	81	CE1	PHE	A	31	15.732	-11.177	7.182	0.00	0.00	C
ATOM	82	CE2	PHE	A	31	16.224	-10.534	9.459	0.00	0.00	C
ATOM	83	CZ	PHE	A	31	15.688	-11.452	8.550	0.00	0.00	C
ATOM	84	N	LEU	A	32	20.107	-6.252	5.959	0.00	0.00	N
ATOM	85	CA	LEU	A	32	20.881	-5.147	5.478	0.00	0.00	C
ATOM	86	C	LEU	A	32	21.244	-5.294	4.041	0.00	0.00	C
ATOM	87	O	LEU	A	32	21.082	-4.325	3.260	0.00	0.00	O
ATOM	88	CB	LEU	A	32	22.115	-4.986	6.402	0.00	0.00	C
ATOM	89	CG	LEU	A	32	22.961	-3.708	6.152	0.00	0.00	C
ATOM	90	CD1	LEU	A	32	22.171	-2.410	6.439	0.00	0.00	C
ATOM	91	CD2	LEU	A	32	24.227	-3.742	7.035	0.00	0.00	C
ATOM	92	N	PHE	A	33	21.696	-6.470	3.545	0.00	0.00	N
ATOM	93	CA	PHE	A	33	21.870	-6.715	2.140	0.00	0.00	C
ATOM	94	C	PHE	A	33	20.643	-6.449	1.333	0.00	0.00	C
ATOM	95	O	PHE	A	33	20.717	-5.678	0.345	0.00	0.00	O
ATOM	96	CB	PHE	A	33	22.391	-8.160	1.936	0.00	0.00	C
ATOM	97	CG	PHE	A	33	22.661	-8.474	0.515	0.00	0.00	C
ATOM	98	CD1	PHE	A	33	23.687	-7.810	-0.180	0.00	0.00	C
ATOM	99	CD2	PHE	A	33	21.886	-9.430	-0.162	0.00	0.00	C
ATOM	100	CE1	PHE	A	33	23.925	-8.088	-1.531	0.00	0.00	C
ATOM	101	CE2	PHE	A	33	22.125	-9.711	-1.513	0.00	0.00	C
ATOM	102	CZ	PHE	A	33	23.144	-9.039	-2.199	0.00	0.00	C
ATOM	103	N	MET	A	34	19.451	-7.000	1.653	0.00	0.00	N
ATOM	104	CA	MET	A	34	18.228	-6.681	0.959	0.00	0.00	C
ATOM	105	C	MET	A	34	17.929	-5.222	0.941	0.00	0.00	O
ATOM	106	O	MET	A	34	17.646	-4.672	-0.155	0.00	0.00	C
ATOM	107	CB	MET	A	34	17.041	-7.489	1.541	0.00	0.00	C
ATOM	108	CG	MET	A	34	16.902	-8.891	0.910	0.00	0.00	C
ATOM	109	SD	MET	A	34	18.203	-10.030	1.429	0.00	0.00	S
ATOM	110	CE	MET	A	34	17.638	-11.419	0.428	0.00	0.00	C
ATOM	111	N	TYR	A	35	18.039	-4.485	2.073	0.00	0.00	N
ATOM	112	CA	TYR	A	35	17.976	-3.048	2.111	0.00	0.00	C
ATOM	113	C	TYR	A	35	18.865	-2.440	1.083	0.00	0.00	C
ATOM	114	O	TYR	A	35	18.376	-1.662	0.224	0.00	0.00	O
ATOM	115	CB	TYR	A	35	18.267	-2.573	3.566	0.00	0.00	C
ATOM	116	CG	TYR	A	35	18.640	-1.146	3.723	0.00	0.00	C
ATOM	117	CD1	TYR	A	35	19.948	-0.712	3.436	0.00	0.00	C
ATOM	118	CD2	TYR	A	35	17.706	-0.199	4.179	0.00	0.00	C
ATOM	119	CE1	TYR	A	35	20.293	0.642	3.525	0.00	0.00	C
ATOM	120	CE2	TYR	A	35	18.051	1.156	4.276	0.00	0.00	C
ATOM	121	CZ	TYR	A	35	19.341	1.580	3.935	0.00	0.00	C
ATOM	122	OH	TYR	A	35	19.676	2.886	4.004	0.00	0.00	O
ATOM	123	N	LEU	A	36	20.180	-2.759	1.058	0.00	0.00	N

ATOM	124	CA	LEU	A	36	21.118	-2.259	0.097	0.00	0.00	C
ATOM	125	C	LEU	A	36	20.674	-2.470	-1.304	0.00	0.00	C
ATOM	126	O	LEU	A	36	20.621	-1.481	-2.077	0.00	0.00	O
ATOM	127	CB	LEU	A	36	22.511	-2.883	0.368	0.00	0.00	C
ATOM	128	CG	LEU	A	36	23.662	-2.318	-0.512	0.00	0.00	C
ATOM	129	CD1	LEU	A	36	23.928	-0.820	-0.244	0.00	0.00	C
ATOM	130	CD2	LEU	A	36	24.953	-3.129	-0.270	0.00	0.00	C
ATOM	131	N	VAL	A	37	20.298	-3.699	-1.726	0.00	0.00	N
ATOM	132	CA	VAL	A	37	19.798	-3.978	-3.048	0.00	0.00	C
ATOM	133	C	VAL	A	37	18.695	-3.052	-3.414	0.00	0.00	C
ATOM	134	O	VAL	A	37	18.821	-2.311	-4.426	0.00	0.00	O
ATOM	135	CB	VAL	A	37	19.340	-5.466	-3.178	0.00	0.00	C
ATOM	136	CG1	VAL	A	37	18.686	-5.774	-4.550	0.00	0.00	C
ATOM	137	CG2	VAL	A	37	20.508	-6.457	-2.972	0.00	0.00	C
ATOM	138	N	THR	A	38	17.575	-3.014	-2.655	0.00	0.00	N
ATOM	139	CA	THR	A	38	16.430	-2.211	-2.976	0.00	0.00	C
ATOM	140	C	THR	A	38	16.753	-0.766	-3.031	0.00	0.00	C
ATOM	141	O	THR	A	38	16.365	-0.110	-4.031	0.00	0.00	O
ATOM	142	CB	THR	A	38	15.270	-2.492	-1.987	0.00	0.00	C
ATOM	143	OG1	THR	A	38	14.883	-3.862	-2.056	0.00	0.00	O
ATOM	144	CG2	THR	A	38	14.008	-1.666	-2.295	0.00	0.00	C
ATOM	145	N	VAL	A	39	17.456	-0.164	-2.040	0.00	0.00	N
ATOM	146	CA	VAL	A	39	17.787	1.232	-2.050	0.00	0.00	C
ATOM	147	C	VAL	A	39	18.623	1.582	-3.228	0.00	0.00	C
ATOM	148	O	VAL	A	39	18.233	2.488	-4.009	0.00	0.00	O
ATOM	149	CB	VAL	A	39	18.378	1.658	-0.664	0.00	0.00	C
ATOM	150	CG1	VAL	A	39	19.906	1.485	-0.506	0.00	0.00	C
ATOM	151	CG2	VAL	A	39	18.019	3.117	-0.310	0.00	0.00	C
ATOM	152	N	ALA	A	40	19.750	0.883	-3.508	0.00	0.00	N
ATOM	153	CA	ALA	A	40	20.617	1.177	-4.602	0.00	0.00	C
ATOM	154	C	ALA	A	40	19.933	1.080	-5.912	0.00	0.00	C
ATOM	155	O	ALA	A	40	20.000	2.057	-6.697	0.00	0.00	O
ATOM	156	CB	ALA	A	40	21.833	0.231	-4.527	0.00	0.00	C
ATOM	157	N	GLY	A	41	19.212	-0.017	-6.244	0.00	0.00	N
ATOM	158	CA	GLY	A	41	18.533	-0.167	-7.496	0.00	0.00	C
ATOM	159	C	GLY	A	41	17.595	0.929	-7.814	0.00	0.00	C
ATOM	160	O	GLY	A	41	17.675	1.536	-8.911	0.00	0.00	O
ATOM	161	N	ASN	A	42	16.659	1.280	-6.910	0.00	0.00	N
ATOM	162	CA	ASN	A	42	15.701	2.315	-7.143	0.00	0.00	C
ATOM	163	C	ASN	A	42	16.308	3.671	-7.193	0.00	0.00	C
ATOM	164	O	ASN	A	42	15.940	4.453	-8.107	0.00	0.00	O
ATOM	165	CB	ASN	A	42	14.585	2.163	-6.089	0.00	0.00	C
ATOM	166	CG	ASN	A	42	13.832	0.919	-6.314	0.00	0.00	C
ATOM	167	OD1	ASN	A	42	13.075	0.795	-7.299	0.00	0.00	O
ATOM	168	ND2	ASN	A	42	13.978	-0.140	-5.519	0.00	0.00	N
ATOM	169	N	LEU	A	43	17.298	4.052	-6.348	0.00	0.00	N
ATOM	170	CA	LEU	A	43	18.017	5.283	-6.521	0.00	0.00	C
ATOM	171	C	LEU	A	43	18.695	5.350	-7.840	0.00	0.00	C
ATOM	172	O	LEU	A	43	18.527	6.379	-8.539	0.00	0.00	O
ATOM	173	CB	LEU	A	43	19.030	5.495	-5.369	0.00	0.00	C
ATOM	174	CG	LEU	A	43	18.371	5.868	-4.013	0.00	0.00	C
ATOM	175	CD1	LEU	A	43	19.411	5.756	-2.879	0.00	0.00	C
ATOM	176	CD2	LEU	A	43	17.779	7.297	-4.018	0.00	0.00	C
ATOM	177	N	LEU	A	44	19.423	4.315	-8.323	0.00	0.00	N
ATOM	178	CA	LEU	A	44	19.970	4.280	-9.649	0.00	0.00	C
ATOM	179	C	LEU	A	44	18.942	4.517	-10.694	0.00	0.00	C
ATOM	180	O	LEU	A	44	19.167	5.419	-11.534	0.00	0.00	O
ATOM	181	CB	LEU	A	44	20.703	2.937	-9.897	0.00	0.00	C
ATOM	182	CG	LEU	A	44	22.069	2.819	-9.168	0.00	0.00	C
ATOM	183	CD1	LEU	A	44	22.504	1.340	-9.087	0.00	0.00	C
ATOM	184	CD2	LEU	A	44	23.170	3.645	-9.871	0.00	0.00	C
ATOM	185	N	ILE	A	45	17.776	3.830	-10.732	0.00	0.00	N
ATOM	186	CA	ILE	A	45	16.703	4.130	-11.653	0.00	0.00	C
ATOM	187	C	ILE	A	45	16.345	5.574	-11.643	0.00	0.00	C
ATOM	188	O	ILE	A	45	16.411	6.227	-12.716	0.00	0.00	O
ATOM	189	CB	ILE	A	45	15.471	3.207	-11.376	0.00	0.00	C
ATOM	190	CG1	ILE	A	45	15.785	1.751	-11.824	0.00	0.00	C
ATOM	191	CG2	ILE	A	45	14.170	3.709	-12.060	0.00	0.00	C
ATOM	192	CD1	ILE	A	45	14.732	0.711	-11.388	0.00	0.00	C
ATOM	193	N	ILE	A	46	15.971	6.181	-10.493	0.00	0.00	N
ATOM	194	CA	ILE	A	46	15.609	7.571	-10.409	0.00	0.00	C
ATOM	195	C	ILE	A	46	16.688	8.444	-10.946	0.00	0.00	C
ATOM	196	O	ILE	A	46	16.417	9.275	-11.849	0.00	0.00	O
ATOM	197	CB	ILE	A	46	15.181	7.901	-8.942	0.00	0.00	C
ATOM	198	CG1	ILE	A	46	13.801	7.244	-8.639	0.00	0.00	C
ATOM	199	CG2	ILE	A	46	15.126	9.426	-8.666	0.00	0.00	C
ATOM	200	CD1	ILE	A	46	13.361	7.314	-7.162	0.00	0.00	C

ATOM	201	N	LEU	A	47	17.958	8.318	-10.508	0.00	0.00	N
ATOM	202	CA	LEU	A	47	19.052	9.102	-10.995	0.00	0.00	C
ATOM	203	C	LEU	A	47	19.286	8.951	-12.451	0.00	0.00	C
ATOM	204	O	LEU	A	47	19.423	9.992	-13.131	0.00	0.00	O
ATOM	205	CB	LEU	A	47	20.324	8.775	-10.176	0.00	0.00	C
ATOM	206	CG	LEU	A	47	20.274	9.336	-8.728	0.00	0.00	C
ATOM	207	CD1	LEU	A	47	21.344	8.652	-7.852	0.00	0.00	C
ATOM	208	CD2	LEU	A	47	20.480	10.869	-8.696	0.00	0.00	C
ATOM	209	N	VAL	A	48	19.319	7.753	-13.073	0.00	0.00	N
ATOM	210	CA	VAL	A	48	19.436	7.584	-14.497	0.00	0.00	C
ATOM	211	C	VAL	A	48	18.359	8.295	-15.233	0.00	0.00	C
ATOM	212	O	VAL	A	48	18.673	9.051	-16.185	0.00	0.00	O
ATOM	213	CB	VAL	A	48	19.484	6.060	-14.819	0.00	0.00	C
ATOM	214	CG1	VAL	A	48	19.233	5.743	-16.312	0.00	0.00	C
ATOM	215	CG2	VAL	A	48	20.851	5.459	-14.413	0.00	0.00	C
ATOM	216	N	ILE	A	49	17.059	8.153	-14.880	0.00	0.00	N
ATOM	217	CA	ILE	A	49	16.001	8.871	-15.538	0.00	0.00	C
ATOM	218	C	ILE	A	49	16.170	10.340	-15.391	0.00	0.00	C
ATOM	219	O	ILE	A	49	16.021	11.055	-16.408	0.00	0.00	O
ATOM	220	CB	ILE	A	49	14.597	8.380	-15.075	0.00	0.00	C
ATOM	221	CG1	ILE	A	49	14.424	6.865	-15.389	0.00	0.00	C
ATOM	222	CG2	ILE	A	49	13.472	9.196	-15.766	0.00	0.00	C
ATOM	223	CD1	ILE	A	49	13.158	6.241	-14.771	0.00	0.00	C
ATOM	224	N	ILE	A	50	16.498	10.914	-14.211	0.00	0.00	N
ATOM	225	CA	ILE	A	50	16.826	12.309	-14.074	0.00	0.00	C
ATOM	226	C	ILE	A	50	17.954	12.703	-14.964	0.00	0.00	C
ATOM	227	O	ILE	A	50	17.824	13.728	-15.673	0.00	0.00	O
ATOM	228	CB	ILE	A	50	17.058	12.638	-12.564	0.00	0.00	C
ATOM	229	CG1	ILE	A	50	15.694	12.607	-11.815	0.00	0.00	C
ATOM	230	CG2	ILE	A	50	17.768	13.999	-12.340	0.00	0.00	C
ATOM	231	CD1	ILE	A	50	15.805	12.693	-10.280	0.00	0.00	C
ATOM	232	N	THR	A	51	19.095	11.984	-15.021	0.00	0.00	N
ATOM	233	CA	THR	A	51	20.217	12.268	-15.872	0.00	0.00	C
ATOM	234	C	THR	A	51	19.887	12.302	-17.319	0.00	0.00	C
ATOM	235	O	THR	A	51	20.144	13.352	-17.954	0.00	0.00	O
ATOM	236	CB	THR	A	51	21.372	11.256	-15.621	0.00	0.00	C
ATOM	237	OG1	THR	A	51	21.669	11.159	-14.231	0.00	0.00	O
ATOM	238	CG2	THR	A	51	22.690	11.656	-16.312	0.00	0.00	C
ATOM	239	N	ASP	A	52	19.368	11.232	-17.966	0.00	0.00	N
ATOM	240	CA	ASP	A	52	19.244	11.181	-19.397	0.00	0.00	C
ATOM	241	C	ASP	A	52	17.892	11.564	-19.882	0.00	0.00	C
ATOM	242	O	ASP	A	52	16.895	10.822	-19.695	0.00	0.00	O
ATOM	243	CB	ASP	A	52	19.653	9.790	-19.940	0.00	0.00	C
ATOM	244	CG	ASP	A	52	21.059	9.439	-19.707	0.00	0.00	C
ATOM	245	OD1	ASP	A	52	21.480	9.190	-18.557	0.00	0.00	O
ATOM	246	OD2	ASP	A	52	21.844	9.330	-20.675	0.00	0.00	O1-
ATOM	247	N	THR	A	53	17.747	12.707	-20.592	0.00	0.00	N1+
ATOM	248	CA	THR	A	53	16.521	13.129	-21.203	0.00	0.00	C
ATOM	249	C	THR	A	53	16.142	12.210	-22.301	0.00	0.00	C
ATOM	250	O	THR	A	53	16.937	12.060	-23.256	0.00	0.00	O
ATOM	251	CB	THR	A	53	16.604	14.588	-21.727	0.00	0.00	C
ATOM	252	OG1	THR	A	53	17.182	15.444	-20.749	0.00	0.00	O
ATOM	253	CG2	THR	A	53	15.219	15.172	-22.073	0.00	0.00	C
ATOM	254	N	GLN	A	54	14.948	11.577	-22.251	0.00	0.00	N
ATOM	255	CA	GLN	A	54	14.382	10.607	-23.157	0.00	0.00	C
ATOM	256	C	GLN	A	54	13.774	9.511	-22.420	0.00	0.00	C
ATOM	257	O	GLN	A	54	12.729	9.052	-22.866	0.00	0.00	O
ATOM	258	CB	GLN	A	54	15.318	10.076	-24.286	0.00	0.00	C
ATOM	259	CG	GLN	A	54	14.682	9.078	-25.296	0.00	0.00	C
ATOM	260	CD	GLN	A	54	14.905	7.653	-25.000	0.00	0.00	C
ATOM	261	OE1	GLN	A	54	13.946	6.886	-24.774	0.00	0.00	O
ATOM	262	NE2	GLN	A	54	16.136	7.133	-25.030	0.00	0.00	N
ATOM	263	N	LEU	A	55	14.315	9.023	-21.316	0.00	0.00	N
ATOM	264	CA	LEU	A	55	13.888	7.839	-20.609	0.00	0.00	C
ATOM	265	C	LEU	A	55	12.627	8.029	-19.831	0.00	0.00	C
ATOM	266	O	LEU	A	55	12.487	7.620	-18.655	0.00	0.00	O
ATOM	267	CB	LEU	A	55	15.074	7.379	-19.713	0.00	0.00	C
ATOM	268	CG	LEU	A	55	16.255	6.678	-20.440	0.00	0.00	C
ATOM	269	CD1	LEU	A	55	16.940	7.553	-21.511	0.00	0.00	C
ATOM	270	CD2	LEU	A	55	17.306	6.240	-19.397	0.00	0.00	C
ATOM	271	N	HIS	A	56	11.596	8.653	-20.429	0.00	0.00	N
ATOM	272	CA	HIS	A	56	10.360	9.053	-19.827	0.00	0.00	C
ATOM	273	C	HIS	A	56	9.221	8.519	-20.611	0.00	0.00	C
ATOM	274	O	HIS	A	56	8.553	9.259	-21.371	0.00	0.00	O
ATOM	275	CB	HIS	A	56	10.295	10.602	-19.667	0.00	0.00	C
ATOM	276	CG	HIS	A	56	11.611	11.254	-19.579	0.00	0.00	C
ATOM	277	ND1	HIS	A	56	12.540	11.089	-18.630	0.00	0.00	N

ATOM	278	CD2	HIS	A	56	12.141	12.141	-20.506	0.00	0.00	C
ATOM	279	CE1	HIS	A	56	13.612	11.827	-18.951	0.00	0.00	C
ATOM	280	NE2	HIS	A	56	13.376	12.472	-20.107	0.00	0.00	N
ATOM	281	N	THR	A	57	8.870	7.221	-20.505	0.00	0.00	N1+
ATOM	282	CA	THR	A	57	7.759	6.634	-21.206	0.00	0.00	C
ATOM	283	C	THR	A	57	6.619	6.405	-20.281	0.00	0.00	C
ATOM	284	O	THR	A	57	6.871	6.365	-19.053	0.00	0.00	O
ATOM	285	CB	THR	A	57	8.139	5.301	-21.911	0.00	0.00	C
ATOM	286	OG1	THR	A	57	7.977	4.186	-21.034	0.00	0.00	O
ATOM	287	CG2	THR	A	57	9.571	5.275	-22.477	0.00	0.00	C
ATOM	288	N	PRO	A	58	5.342	6.136	-20.678	0.00	0.00	N
ATOM	289	CA	PRO	A	58	4.310	5.774	-19.746	0.00	0.00	C
ATOM	290	C	PRO	A	58	4.672	4.620	-18.888	0.00	0.00	C
ATOM	291	O	PRO	A	58	4.570	4.719	-17.647	0.00	0.00	O
ATOM	292	CB	PRO	A	58	3.064	5.512	-20.617	0.00	0.00	C
ATOM	293	CG	PRO	A	58	3.358	6.270	-21.914	0.00	0.00	C
ATOM	294	CD	PRO	A	58	4.884	6.199	-22.030	0.00	0.00	C
ATOM	295	N	MET	A	59	5.183	3.489	-19.422	0.00	0.00	N
ATOM	296	CA	MET	A	59	5.582	2.336	-18.661	0.00	0.00	C
ATOM	297	C	MET	A	59	6.497	2.648	-17.528	0.00	0.00	C
ATOM	298	O	MET	A	59	6.298	2.141	-16.396	0.00	0.00	O
ATOM	299	CB	MET	A	59	6.198	1.313	-19.648	0.00	0.00	C
ATOM	300	CG	MET	A	59	6.392	-0.087	-19.020	0.00	0.00	C
ATOM	301	SD	MET	A	59	6.812	-1.344	-20.251	0.00	0.00	S
ATOM	302	CE	MET	A	59	8.517	-0.840	-20.561	0.00	0.00	C
ATOM	303	N	TYR	A	60	7.521	3.509	-17.699	0.00	0.00	N
ATOM	304	CA	TYR	A	60	8.432	3.874	-16.658	0.00	0.00	C
ATOM	305	C	TYR	A	60	7.816	4.753	-15.628	0.00	0.00	C
ATOM	306	O	TYR	A	60	8.409	4.889	-14.532	0.00	0.00	O
ATOM	307	CB	TYR	A	60	9.707	4.508	-17.275	0.00	0.00	C
ATOM	308	CG	TYR	A	60	10.595	3.531	-17.956	0.00	0.00	C
ATOM	309	CD1	TYR	A	60	10.160	2.832	-19.094	0.00	0.00	C
ATOM	310	CD2	TYR	A	60	11.906	3.306	-17.497	0.00	0.00	C
ATOM	311	CE1	TYR	A	60	11.011	1.956	-19.773	0.00	0.00	C
ATOM	312	CE2	TYR	A	60	12.771	2.442	-18.188	0.00	0.00	C
ATOM	313	CZ	TYR	A	60	12.323	1.777	-19.337	0.00	0.00	C
ATOM	314	OH	TYR	A	60	13.127	0.983	-20.074	0.00	0.00	O
ATOM	315	N	PHE	A	61	6.607	5.337	-15.794	0.00	0.00	N
ATOM	316	CA	PHE	A	61	5.934	6.105	-14.792	0.00	0.00	C
ATOM	317	C	PHE	A	61	5.367	5.153	-13.807	0.00	0.00	C
ATOM	318	O	PHE	A	61	5.606	5.253	-12.581	0.00	0.00	O
ATOM	319	CB	PHE	A	61	4.853	6.973	-15.502	0.00	0.00	C
ATOM	320	CG	PHE	A	61	4.732	8.335	-14.942	0.00	0.00	C
ATOM	321	CD1	PHE	A	61	4.283	8.538	-13.626	0.00	0.00	C
ATOM	322	CD2	PHE	A	61	5.067	9.453	-15.729	0.00	0.00	C
ATOM	323	CE1	PHE	A	61	4.208	9.832	-13.094	0.00	0.00	C
ATOM	324	CE2	PHE	A	61	4.988	10.746	-15.199	0.00	0.00	C
ATOM	325	CZ	PHE	A	61	4.572	10.934	-13.877	0.00	0.00	C
ATOM	326	N	PHE	A	62	4.675	4.098	-14.278	0.00	0.00	N
ATOM	327	CA	PHE	A	62	4.213	3.002	-13.482	0.00	0.00	C
ATOM	328	C	PHE	A	62	5.341	2.301	-12.809	0.00	0.00	C
ATOM	329	O	PHE	A	62	5.265	2.028	-11.585	0.00	0.00	O
ATOM	330	CB	PHE	A	62	3.329	2.093	-14.372	0.00	0.00	C
ATOM	331	CG	PHE	A	62	2.241	2.863	-15.023	0.00	0.00	C
ATOM	332	CD1	PHE	A	62	1.190	3.405	-14.263	0.00	0.00	C
ATOM	333	CD2	PHE	A	62	2.264	3.098	-16.407	0.00	0.00	C
ATOM	334	CE1	PHE	A	62	0.201	4.190	-14.871	0.00	0.00	C
ATOM	335	CE2	PHE	A	62	1.291	3.903	-17.012	0.00	0.00	C
ATOM	336	CZ	PHE	A	62	0.255	4.445	-16.245	0.00	0.00	C
ATOM	337	N	LEU	A	63	6.492	2.038	-13.472	0.00	0.00	N
ATOM	338	CA	LEU	A	63	7.684	1.584	-12.807	0.00	0.00	C
ATOM	339	C	LEU	A	63	8.150	2.500	-11.724	0.00	0.00	C
ATOM	340	O	LEU	A	63	8.386	2.015	-10.593	0.00	0.00	O
ATOM	341	CB	LEU	A	63	8.801	1.305	-13.844	0.00	0.00	C
ATOM	342	CG	LEU	A	63	9.876	0.295	-13.353	0.00	0.00	C
ATOM	343	CD1	LEU	A	63	9.346	-1.158	-13.342	0.00	0.00	C
ATOM	344	CD2	LEU	A	63	11.135	0.377	-14.243	0.00	0.00	C
ATOM	345	N	ALA	A	64	8.295	3.836	-11.900	0.00	0.00	N
ATOM	346	CA	ALA	A	64	8.568	4.759	-10.829	0.00	0.00	C
ATOM	347	C	ALA	A	64	7.645	4.631	-9.667	0.00	0.00	C
ATOM	348	O	ALA	A	64	8.088	4.677	-8.495	0.00	0.00	O
ATOM	349	CB	ALA	A	64	8.551	6.199	-11.381	0.00	0.00	C
ATOM	350	N	ASN	A	65	6.323	4.449	-9.850	0.00	0.00	N
ATOM	351	CA	ASN	A	65	5.404	4.160	-8.780	0.00	0.00	C
ATOM	352	C	ASN	A	65	5.750	2.931	-8.011	0.00	0.00	C
ATOM	353	O	ASN	A	65	5.840	2.985	-6.759	0.00	0.00	O
ATOM	354	CB	ASN	A	65	3.961	4.097	-9.327	0.00	0.00	C

ATOM	355	CG	ASN	A	65	3.256	5.382	-9.310	0.00	0.00	C
ATOM	356	OD1	ASN	A	65	2.587	5.719	-8.312	0.00	0.00	O
ATOM	357	ND2	ASN	A	65	3.300	6.234	-10.336	0.00	0.00	N
ATOM	358	N	LEU	A	66	6.021	1.775	-8.657	0.00	0.00	N
ATOM	359	CA	LEU	A	66	6.562	0.607	-8.005	0.00	0.00	C
ATOM	360	C	LEU	A	66	7.804	0.924	-7.244	0.00	0.00	C
ATOM	361	O	LEU	A	66	7.902	0.583	-6.040	0.00	0.00	O
ATOM	362	CB	LEU	A	66	6.816	-0.508	-9.057	0.00	0.00	C
ATOM	363	CG	LEU	A	66	5.653	-1.521	-9.239	0.00	0.00	C
ATOM	364	CD1	LEU	A	66	4.322	-0.855	-9.653	0.00	0.00	C
ATOM	365	CD2	LEU	A	66	6.055	-2.585	-10.285	0.00	0.00	C
ATOM	366	N	SER	A	67	8.797	1.639	-7.818	0.00	0.00	N
ATOM	367	CA	SER	A	67	9.960	2.111	-7.116	0.00	0.00	C
ATOM	368	C	SER	A	67	9.647	2.876	-5.882	0.00	0.00	C
ATOM	369	O	SER	A	67	10.250	2.595	-4.823	0.00	0.00	O
ATOM	370	CB	SER	A	67	10.851	2.971	-8.041	0.00	0.00	C
ATOM	371	OG	SER	A	67	11.460	2.168	-9.045	0.00	0.00	O
ATOM	372	N	LEU	A	68	8.734	3.869	-5.869	0.00	0.00	N
ATOM	373	CA	LEU	A	68	8.290	4.535	-4.673	0.00	0.00	C
ATOM	374	C	LEU	A	68	7.733	3.615	-3.645	0.00	0.00	C
ATOM	375	O	LEU	A	68	8.100	3.741	-2.451	0.00	0.00	O
ATOM	376	CB	LEU	A	68	7.274	5.647	-5.036	0.00	0.00	C
ATOM	377	CG	LEU	A	68	7.926	6.875	-5.726	0.00	0.00	C
ATOM	378	CD1	LEU	A	68	6.847	7.733	-6.420	0.00	0.00	C
ATOM	379	CD2	LEU	A	68	8.713	7.748	-4.721	0.00	0.00	C
ATOM	380	N	ALA	A	69	6.870	2.627	-3.968	0.00	0.00	N
ATOM	381	CA	ALA	A	69	6.461	1.616	-3.029	0.00	0.00	C
ATOM	382	C	ALA	A	69	7.616	0.870	-2.446	0.00	0.00	C
ATOM	383	O	ALA	A	69	7.744	0.796	-1.196	0.00	0.00	O
ATOM	384	CB	ALA	A	69	5.440	0.684	-3.713	0.00	0.00	C
ATOM	385	N	ASP	A	70	8.569	0.346	-3.252	0.00	0.00	N
ATOM	386	CA	ASP	A	70	9.790	-0.255	-2.781	0.00	0.00	C
ATOM	387	C	ASP	A	70	10.541	0.661	-1.860	0.00	0.00	C
ATOM	388	O	ASP	A	70	10.954	0.265	-0.743	0.00	0.00	O
ATOM	389	CB	ASP	A	70	10.664	-0.707	-3.989	0.00	0.00	C
ATOM	390	CG	ASP	A	70	10.105	-1.734	-4.892	0.00	0.00	C
ATOM	391	OD1	ASP	A	70	8.992	-2.261	-4.691	0.00	0.00	O
ATOM	392	OD2	ASP	A	70	10.757	-2.120	-5.894	0.00	0.00	O1-
ATOM	393	N	ALA	A	71	10.751	1.958	-2.175	0.00	0.00	N
ATOM	394	CA	ALA	A	71	11.323	2.937	-1.295	0.00	0.00	C
ATOM	395	C	ALA	A	71	10.621	3.075	0.012	0.00	0.00	C
ATOM	396	O	ALA	A	71	11.282	3.063	1.078	0.00	0.00	O
ATOM	397	CB	ALA	A	71	11.395	4.293	-2.023	0.00	0.00	C
ATOM	398	N	CYS	A	72	9.278	3.199	0.086	0.00	0.00	N
ATOM	399	CA	CYS	A	72	8.543	3.192	1.326	0.00	0.00	C
ATOM	400	C	CYS	A	72	8.884	2.021	2.174	0.00	0.00	C
ATOM	401	O	CYS	A	72	9.241	2.205	3.366	0.00	0.00	O
ATOM	402	CB	CYS	A	72	7.022	3.241	1.066	0.00	0.00	C
ATOM	403	SG	CYS	A	72	6.574	4.696	0.100	0.00	0.00	S
ATOM	404	N	PHE	A	73	8.900	0.782	1.629	0.00	0.00	N
ATOM	405	CA	PHE	A	73	9.399	-0.379	2.313	0.00	0.00	C
ATOM	406	C	PHE	A	73	10.765	-0.166	2.868	0.00	0.00	C
ATOM	407	O	PHE	A	73	10.978	-0.390	4.087	0.00	0.00	O
ATOM	408	CB	PHE	A	73	9.346	-1.623	1.375	0.00	0.00	C
ATOM	409	CG	PHE	A	73	10.487	-2.554	1.562	0.00	0.00	C
ATOM	410	CD1	PHE	A	73	10.541	-3.417	2.667	0.00	0.00	C
ATOM	411	CD2	PHE	A	73	11.570	-2.546	0.666	0.00	0.00	C
ATOM	412	CE1	PHE	A	73	11.664	-4.230	2.866	0.00	0.00	C
ATOM	413	CE2	PHE	A	73	12.695	-3.352	0.877	0.00	0.00	C
ATOM	414	CZ	PHE	A	73	12.745	-4.196	1.984	0.00	0.00	C
ATOM	415	N	VAL	A	74	11.767	0.189	2.032	0.00	0.00	N
ATOM	416	CA	VAL	A	74	13.139	0.300	2.434	0.00	0.00	C
ATOM	417	C	VAL	A	74	13.358	1.324	3.486	0.00	0.00	C
ATOM	418	O	VAL	A	74	14.204	1.122	4.387	0.00	0.00	O
ATOM	419	CB	VAL	A	74	14.068	0.446	1.189	0.00	0.00	C
ATOM	420	CG1	VAL	A	74	14.460	1.893	0.813	0.00	0.00	C
ATOM	421	CG2	VAL	A	74	15.366	-0.365	1.379	0.00	0.00	C
ATOM	422	N	SER	A	75	12.658	2.476	3.461	0.00	0.00	N
ATOM	423	CA	SER	A	75	12.762	3.518	4.435	0.00	0.00	C
ATOM	424	C	SER	A	75	11.937	3.357	5.657	0.00	0.00	C
ATOM	425	O	SER	A	75	12.437	3.778	6.725	0.00	0.00	O
ATOM	426	CB	SER	A	75	12.471	4.869	3.752	0.00	0.00	C
ATOM	427	OG	SER	A	75	11.172	4.904	3.166	0.00	0.00	O
ATOM	428	N	THR	A	76	10.689	2.832	5.683	0.00	0.00	N
ATOM	429	CA	THR	A	76	9.892	2.725	6.882	0.00	0.00	C
ATOM	430	C	THR	A	76	9.615	1.340	7.316	0.00	0.00	C
ATOM	431	O	THR	A	76	9.791	1.053	8.525	0.00	0.00	O

ATOM	432	CB	THR	A	76	8.557	3.502	6.761	0.00	0.00	C
ATOM	433	OG1	THR	A	76	7.819	3.215	5.574	0.00	0.00	O
ATOM	434	CG2	THR	A	76	8.767	5.020	6.890	0.00	0.00	C
ATOM	435	N	THR	A	77	9.166	0.396	6.466	0.00	0.00	N
ATOM	436	CA	THR	A	77	8.821	-0.937	6.875	0.00	0.00	C
ATOM	437	C	THR	A	77	9.998	-1.695	7.372	0.00	0.00	C
ATOM	438	O	THR	A	77	9.986	-2.142	8.547	0.00	0.00	O
ATOM	439	CB	THR	A	77	8.105	-1.681	5.716	0.00	0.00	C
ATOM	440	OG1	THR	A	77	7.071	-0.858	5.184	0.00	0.00	O
ATOM	441	CG2	THR	A	77	7.440	-2.998	6.149	0.00	0.00	C
ATOM	442	N	VAL	A	78	11.084	-1.899	6.586	0.00	0.00	N
ATOM	443	CA	VAL	A	78	12.177	-2.736	7.007	0.00	0.00	C
ATOM	444	C	VAL	A	78	12.904	-2.251	8.209	0.00	0.00	C
ATOM	445	O	VAL	A	78	13.126	-3.128	9.074	0.00	0.00	O
ATOM	446	CB	VAL	A	78	13.124	-3.186	5.856	0.00	0.00	C
ATOM	447	CG1	VAL	A	78	14.055	-2.104	5.280	0.00	0.00	C
ATOM	448	CG2	VAL	A	78	13.973	-4.424	6.234	0.00	0.00	C
ATOM	449	N	PRO	A	79	13.316	-0.980	8.481	0.00	0.00	N
ATOM	450	CA	PRO	A	79	14.037	-0.647	9.682	0.00	0.00	C
ATOM	451	C	PRO	A	79	13.347	-1.003	10.910	0.00	0.00	C
ATOM	452	O	PRO	A	79	13.943	-1.605	11.797	0.00	0.00	O
ATOM	453	CB	PRO	A	79	14.300	0.870	9.570	0.00	0.00	C
ATOM	454	CG	PRO	A	79	14.163	1.146	8.072	0.00	0.00	C
ATOM	455	CD	PRO	A	79	13.075	0.157	7.654	0.00	0.00	C
ATOM	456	N	LYS	A	80	12.065	-0.726	11.046	0.00	0.00	N
ATOM	457	CA	LYS	A	80	11.288	-1.122	12.176	0.00	0.00	C
ATOM	458	C	LYS	A	80	11.099	-2.587	12.249	0.00	0.00	C
ATOM	459	O	LYS	A	80	11.311	-3.150	13.352	0.00	0.00	O
ATOM	460	CB	LYS	A	80	9.936	-0.366	12.180	0.00	0.00	C
ATOM	461	CG	LYS	A	80	9.995	1.016	12.873	0.00	0.00	C
ATOM	462	CD	LYS	A	80	10.471	1.019	14.349	0.00	0.00	C
ATOM	463	CE	LYS	A	80	9.638	0.176	15.341	0.00	0.00	C
ATOM	464	NZ	LYS	A	80	9.926	-1.264	15.321	0.00	0.00	N1+
ATOM	465	N	MET	A	81	10.744	-3.312	11.166	0.00	0.00	N
ATOM	466	CA	MET	A	81	10.635	-4.736	11.209	0.00	0.00	C
ATOM	467	C	MET	A	81	11.906	-5.426	11.577	0.00	0.00	C
ATOM	468	O	MET	A	81	11.886	-6.425	12.338	0.00	0.00	O
ATOM	469	CB	MET	A	81	10.057	-5.199	9.851	0.00	0.00	C
ATOM	470	CG	MET	A	81	9.462	-6.612	9.950	0.00	0.00	C
ATOM	471	SD	MET	A	81	8.043	-6.649	11.063	0.00	0.00	S
ATOM	472	CE	MET	A	81	8.459	-8.249	11.781	0.00	0.00	C
ATOM	473	N	LEU	A	82	13.095	-4.941	11.151	0.00	0.00	N
ATOM	474	CA	LEU	A	82	14.379	-5.389	11.599	0.00	0.00	C
ATOM	475	C	LEU	A	82	14.483	-5.378	13.081	0.00	0.00	C
ATOM	476	O	LEU	A	82	14.825	-6.421	13.687	0.00	0.00	O
ATOM	477	CB	LEU	A	82	15.502	-4.519	10.965	0.00	0.00	C
ATOM	478	CG	LEU	A	82	16.721	-5.311	10.423	0.00	0.00	C
ATOM	479	CD1	LEU	A	82	17.818	-4.330	9.956	0.00	0.00	C
ATOM	480	CD2	LEU	A	82	17.322	-6.280	11.459	0.00	0.00	C
ATOM	481	N	ALA	A	83	14.172	-4.266	13.787	0.00	0.00	N
ATOM	482	CA	ALA	A	83	14.144	-4.230	15.220	0.00	0.00	C
ATOM	483	C	ALA	A	83	13.300	-5.306	15.792	0.00	0.00	C
ATOM	484	O	ALA	A	83	13.813	-6.102	16.615	0.00	0.00	O
ATOM	485	CB	ALA	A	83	13.663	-2.848	15.700	0.00	0.00	C
ATOM	486	N	ASN	A	84	12.024	-5.458	15.374	0.00	0.00	N
ATOM	487	CA	ASN	A	84	11.157	-6.513	15.818	0.00	0.00	C
ATOM	488	C	ASN	A	84	11.786	-7.849	15.673	0.00	0.00	C
ATOM	489	O	ASN	A	84	11.914	-8.553	16.702	0.00	0.00	O
ATOM	490	CB	ASN	A	84	9.796	-6.428	15.082	0.00	0.00	C
ATOM	491	CG	ASN	A	84	8.978	-5.315	15.578	0.00	0.00	C
ATOM	492	OD1	ASN	A	84	9.458	-4.168	15.710	0.00	0.00	O
ATOM	493	ND2	ASN	A	84	7.695	-5.476	15.909	0.00	0.00	N
ATOM	494	N	ILE	A	85	12.288	-8.302	14.501	0.00	0.00	N
ATOM	495	CA	ILE	A	85	12.936	-9.585	14.407	0.00	0.00	C
ATOM	496	C	ILE	A	85	14.155	-9.708	15.246	0.00	0.00	C
ATOM	497	O	ILE	A	85	14.321	-10.766	15.898	0.00	0.00	O
ATOM	498	CB	ILE	A	85	13.137	-10.059	12.938	0.00	0.00	C
ATOM	499	CG1	ILE	A	85	13.382	-11.596	12.874	0.00	0.00	C
ATOM	500	CG2	ILE	A	85	14.266	-9.292	12.218	0.00	0.00	C
ATOM	501	CD1	ILE	A	85	13.096	-12.219	11.494	0.00	0.00	C
ATOM	502	N	GLN	A	86	15.063	-8.714	15.358	0.00	0.00	N
ATOM	503	CA	GLN	A	86	16.192	-8.786	16.240	0.00	0.00	C
ATOM	504	C	GLN	A	86	15.811	-8.965	17.659	0.00	0.00	C
ATOM	505	O	GLN	A	86	16.378	-9.873	18.309	0.00	0.00	O
ATOM	506	CB	GLN	A	86	17.079	-7.523	16.102	0.00	0.00	C
ATOM	507	CG	GLN	A	86	17.728	-7.391	14.708	0.00	0.00	C
ATOM	508	CD	GLN	A	86	18.791	-8.361	14.446	0.00	0.00	C

ATOM	509	OE1	GLN	A	86	19.929	-8.221	14.938	0.00	0.00	O
ATOM	510	NE2	GLN	A	86	18.581	-9.407	13.645	0.00	0.00	N
ATOM	511	N	ILE	A	87	14.905	-8.157	18.253	0.00	0.00	N
ATOM	512	CA	ILE	A	87	14.639	-8.200	19.663	0.00	0.00	C
ATOM	513	C	ILE	A	87	13.495	-9.064	20.064	0.00	0.00	C
ATOM	514	O	ILE	A	87	13.384	-9.324	21.283	0.00	0.00	O
ATOM	515	CB	ILE	A	87	14.575	-6.758	20.254	0.00	0.00	C
ATOM	516	CG1	ILE	A	87	13.257	-6.025	19.896	0.00	0.00	C
ATOM	517	CG2	ILE	A	87	15.812	-5.924	19.829	0.00	0.00	C
ATOM	518	CD1	ILE	A	87	13.040	-4.724	20.683	0.00	0.00	C
ATOM	519	N	GLN	A	88	12.581	-9.567	19.197	0.00	0.00	N
ATOM	520	CA	GLN	A	88	11.531	-10.504	19.513	0.00	0.00	C
ATOM	521	C	GLN	A	88	10.469	-9.900	20.359	0.00	0.00	C
ATOM	522	O	GLN	A	88	9.706	-10.613	21.051	0.00	0.00	O
ATOM	523	CB	GLN	A	88	12.089	-11.838	20.089	0.00	0.00	C
ATOM	524	CG	GLN	A	88	13.073	-12.571	19.142	0.00	0.00	C
ATOM	525	CD	GLN	A	88	12.407	-13.201	17.992	0.00	0.00	C
ATOM	526	OE1	GLN	A	88	11.597	-14.136	18.156	0.00	0.00	O
ATOM	527	NE2	GLN	A	88	12.636	-12.826	16.732	0.00	0.00	N
ATOM	528	N	SER	A	89	10.330	-8.560	20.345	0.00	0.00	N1+
ATOM	529	CA	SER	A	89	9.474	-7.735	21.148	0.00	0.00	C
ATOM	530	C	SER	A	89	9.561	-6.348	20.637	0.00	0.00	C
ATOM	531	O	SER	A	89	10.101	-6.129	19.527	0.00	0.00	O
ATOM	532	CB	SER	A	89	9.901	-7.799	22.638	0.00	0.00	C
ATOM	533	OG	SER	A	89	9.399	-8.985	23.236	0.00	0.00	O
ATOM	534	N	GLN	A	90	9.073	-5.300	21.334	0.00	0.00	N
ATOM	535	CA	GLN	A	90	9.169	-3.950	20.876	0.00	0.00	C
ATOM	536	C	GLN	A	90	9.579	-3.027	21.924	0.00	0.00	C
ATOM	537	O	GLN	A	90	8.836	-2.158	22.355	0.00	0.00	O
ATOM	538	CB	GLN	A	90	7.847	-3.619	20.137	0.00	0.00	C
ATOM	539	CG	GLN	A	90	8.074	-3.306	18.638	0.00	0.00	C
ATOM	540	CD	GLN	A	90	8.702	-1.999	18.437	0.00	0.00	C
ATOM	541	OE1	GLN	A	90	9.873	-1.897	18.014	0.00	0.00	O
ATOM	542	NE2	GLN	A	90	8.026	-0.888	18.734	0.00	0.00	N
ATOM	543	N	ALA	A	91	10.829	-3.054	22.342	0.00	0.00	N
ATOM	544	CA	ALA	A	91	11.440	-2.058	23.169	0.00	0.00	C
ATOM	545	C	ALA	A	91	11.576	-0.742	22.491	0.00	0.00	C
ATOM	546	O	ALA	A	91	12.012	0.229	23.150	0.00	0.00	O
ATOM	547	CB	ALA	A	91	12.800	-2.598	23.654	0.00	0.00	C
ATOM	548	N	ILE	A	92	11.173	-0.560	21.210	0.00	0.00	N
ATOM	549	CA	ILE	A	92	10.996	0.723	20.591	0.00	0.00	C
ATOM	550	C	ILE	A	92	9.554	1.086	20.668	0.00	0.00	C
ATOM	551	O	ILE	A	92	9.068	1.982	19.942	0.00	0.00	O
ATOM	552	CB	ILE	A	92	11.630	0.805	19.160	0.00	0.00	C
ATOM	553	CG1	ILE	A	92	13.011	0.095	19.102	0.00	0.00	C
ATOM	554	CG2	ILE	A	92	11.777	2.284	18.702	0.00	0.00	C
ATOM	555	CD1	ILE	A	92	13.687	0.131	17.713	0.00	0.00	C
ATOM	556	N	SER	A	93	8.762	0.530	21.608	0.00	0.00	N1+
ATOM	557	CA	SER	A	93	7.663	1.166	22.268	0.00	0.00	C
ATOM	558	C	SER	A	93	6.372	1.196	21.545	0.00	0.00	C
ATOM	559	O	SER	A	93	6.286	0.976	20.314	0.00	0.00	O
ATOM	560	CB	SER	A	93	8.057	2.577	22.785	0.00	0.00	C
ATOM	561	OG	SER	A	93	9.248	2.496	23.563	0.00	0.00	O
ATOM	562	N	TYR	A	94	5.274	1.476	22.278	0.00	0.00	N
ATOM	563	CA	TYR	A	94	3.928	1.547	21.807	0.00	0.00	C
ATOM	564	C	TYR	A	94	3.787	2.368	20.579	0.00	0.00	C
ATOM	565	O	TYR	A	94	3.333	1.848	19.534	0.00	0.00	O
ATOM	566	CB	TYR	A	94	3.030	2.016	22.985	0.00	0.00	C
ATOM	567	CG	TYR	A	94	3.421	3.295	23.635	0.00	0.00	C
ATOM	568	CD1	TYR	A	94	2.836	4.508	23.231	0.00	0.00	C
ATOM	569	CD2	TYR	A	94	4.366	3.316	24.679	0.00	0.00	C
ATOM	570	CE1	TYR	A	94	3.203	5.716	23.837	0.00	0.00	C
ATOM	571	CE2	TYR	A	94	4.733	4.524	25.286	0.00	0.00	C
ATOM	572	CZ	TYR	A	94	4.155	5.725	24.863	0.00	0.00	C
ATOM	573	OH	TYR	A	94	4.515	6.887	25.452	0.00	0.00	O
ATOM	574	N	SER	A	95	4.219	3.645	20.558	0.00	0.00	N
ATOM	575	CA	SER	A	95	4.201	4.523	19.423	0.00	0.00	C
ATOM	576	C	SER	A	95	4.848	3.936	18.224	0.00	0.00	C
ATOM	577	O	SER	A	95	4.223	3.893	17.136	0.00	0.00	O
ATOM	578	CB	SER	A	95	4.877	5.845	19.851	0.00	0.00	C
ATOM	579	OG	SER	A	95	6.136	5.603	20.481	0.00	0.00	O
ATOM	580	N	GLY	A	96	6.081	3.397	18.332	0.00	0.00	N
ATOM	581	CA	GLY	A	96	6.760	2.675	17.302	0.00	0.00	C
ATOM	582	C	GLY	A	96	5.986	1.534	16.776	0.00	0.00	C
ATOM	583	O	GLY	A	96	5.853	1.422	15.534	0.00	0.00	O
ATOM	584	N	CYS	A	97	5.410	0.653	17.626	0.00	0.00	N
ATOM	585	CA	CYS	A	97	4.526	-0.406	17.213	0.00	0.00	C

ATOM	586	C	CYS	A	97	3.431	0.090	16.342	0.00	0.00	C
ATOM	587	O	CYS	A	97	3.245	-0.423	15.209	0.00	0.00	O
ATOM	588	CB	CYS	A	97	3.878	-1.140	18.412	0.00	0.00	C
ATOM	589	SG	CYS	A	97	5.060	-1.664	19.667	0.00	0.00	S
ATOM	590	N	LEU	A	98	2.653	1.108	16.777	0.00	0.00	N
ATOM	591	CA	LEU	A	98	1.579	1.659	16.000	0.00	0.00	C
ATOM	592	C	LEU	A	98	2.066	2.152	14.683	0.00	0.00	C
ATOM	593	O	LEU	A	98	1.551	1.721	13.622	0.00	0.00	O
ATOM	594	CB	LEU	A	98	0.784	2.770	16.741	0.00	0.00	C
ATOM	595	CG	LEU	A	98	0.558	2.637	18.271	0.00	0.00	C
ATOM	596	CD1	LEU	A	98	-0.409	3.734	18.768	0.00	0.00	C
ATOM	597	CD2	LEU	A	98	0.043	1.252	18.721	0.00	0.00	C
ATOM	598	N	LEU	A	99	3.108	3.011	14.621	0.00	0.00	N
ATOM	599	CA	LEU	A	99	3.684	3.489	13.394	0.00	0.00	C
ATOM	600	C	LEU	A	99	4.081	2.395	12.464	0.00	0.00	C
ATOM	601	O	LEU	A	99	3.681	2.416	11.274	0.00	0.00	O
ATOM	602	CB	LEU	A	99	4.873	4.421	13.747	0.00	0.00	C
ATOM	603	CG	LEU	A	99	4.439	5.801	14.318	0.00	0.00	C
ATOM	604	CD1	LEU	A	99	5.618	6.481	15.048	0.00	0.00	C
ATOM	605	CD2	LEU	A	99	3.914	6.744	13.211	0.00	0.00	C
ATOM	606	N	GLN	A	100	4.813	1.347	12.901	0.00	0.00	N
ATOM	607	CA	GLN	A	100	5.124	0.187	12.115	0.00	0.00	C
ATOM	608	C	GLN	A	100	3.928	-0.454	11.509	0.00	0.00	C
ATOM	609	O	GLN	A	100	3.913	-0.669	10.271	0.00	0.00	O
ATOM	610	CB	GLN	A	100	5.883	-0.786	13.042	0.00	0.00	C
ATOM	611	CG	GLN	A	100	6.300	-2.119	12.374	0.00	0.00	C
ATOM	612	CD	GLN	A	100	6.942	-2.980	13.369	0.00	0.00	C
ATOM	613	OE1	GLN	A	100	7.983	-2.600	13.938	0.00	0.00	O
ATOM	614	NE2	GLN	A	100	6.429	-4.151	13.739	0.00	0.00	N
ATOM	615	N	LEU	A	101	2.867	-0.786	12.280	0.00	0.00	N
ATOM	616	CA	LEU	A	101	1.640	-1.319	11.756	0.00	0.00	C
ATOM	617	C	LEU	A	101	1.074	-0.467	10.676	0.00	0.00	C
ATOM	618	O	LEU	A	101	0.773	-0.987	9.570	0.00	0.00	O
ATOM	619	CB	LEU	A	101	0.661	-1.522	12.943	0.00	0.00	C
ATOM	620	CG	LEU	A	101	-0.783	-1.952	12.565	0.00	0.00	C
ATOM	621	CD1	LEU	A	101	-0.828	-3.299	11.810	0.00	0.00	C
ATOM	622	CD2	LEU	A	101	-1.651	-2.044	13.839	0.00	0.00	C
ATOM	623	N	TYR	A	102	0.939	0.866	10.872	0.00	0.00	N
ATOM	624	CA	TYR	A	102	0.481	1.785	9.864	0.00	0.00	C
ATOM	625	C	TYR	A	102	1.252	1.633	8.596	0.00	0.00	C
ATOM	626	O	TYR	A	102	0.657	1.397	7.513	0.00	0.00	O
ATOM	627	CB	TYR	A	102	0.581	3.257	10.356	0.00	0.00	C
ATOM	628	CG	TYR	A	102	-0.006	3.640	11.664	0.00	0.00	C
ATOM	629	CD1	TYR	A	102	-0.847	2.809	12.428	0.00	0.00	C
ATOM	630	CD2	TYR	A	102	0.312	4.910	12.176	0.00	0.00	C
ATOM	631	CE1	TYR	A	102	-1.336	3.230	13.672	0.00	0.00	C
ATOM	632	CE2	TYR	A	102	-0.163	5.327	13.425	0.00	0.00	C
ATOM	633	CZ	TYR	A	102	-0.997	4.491	14.172	0.00	0.00	C
ATOM	634	OH	TYR	A	102	-1.471	4.905	15.366	0.00	0.00	O
ATOM	635	N	PHE	A	103	2.603	1.721	8.630	0.00	0.00	N
ATOM	636	CA	PHE	A	103	3.455	1.572	7.483	0.00	0.00	C
ATOM	637	C	PHE	A	103	3.288	0.276	6.775	0.00	0.00	C
ATOM	638	O	PHE	A	103	3.112	0.271	5.528	0.00	0.00	O
ATOM	639	CB	PHE	A	103	4.940	1.779	7.879	0.00	0.00	C
ATOM	640	CG	PHE	A	103	5.251	3.032	8.610	0.00	0.00	C
ATOM	641	CD1	PHE	A	103	4.630	4.256	8.300	0.00	0.00	C
ATOM	642	CD2	PHE	A	103	6.225	3.012	9.626	0.00	0.00	C
ATOM	643	CE1	PHE	A	103	4.956	5.423	9.002	0.00	0.00	C
ATOM	644	CE2	PHE	A	103	6.566	4.181	10.315	0.00	0.00	C
ATOM	645	CZ	PHE	A	103	5.927	5.387	10.008	0.00	0.00	C
ATOM	646	N	PHE	A	104	3.299	-0.885	7.470	0.00	0.00	N
ATOM	647	CA	PHE	A	104	3.079	-2.172	6.874	0.00	0.00	C
ATOM	648	C	PHE	A	104	1.832	-2.215	6.067	0.00	0.00	C
ATOM	649	O	PHE	A	104	1.880	-2.574	4.864	0.00	0.00	O
ATOM	650	CB	PHE	A	104	3.072	-3.252	7.988	0.00	0.00	C
ATOM	651	CG	PHE	A	104	3.006	-4.632	7.452	0.00	0.00	C
ATOM	652	CD1	PHE	A	104	4.074	-5.155	6.703	0.00	0.00	C
ATOM	653	CD2	PHE	A	104	1.879	-5.442	7.682	0.00	0.00	C
ATOM	654	CE1	PHE	A	104	4.014	-6.453	6.183	0.00	0.00	C
ATOM	655	CE2	PHE	A	104	1.823	-6.745	7.170	0.00	0.00	C
ATOM	656	CZ	PHE	A	104	2.890	-7.253	6.421	0.00	0.00	C
ATOM	657	N	MET	A	105	0.662	-1.822	6.615	0.00	0.00	N
ATOM	658	CA	MET	A	105	-0.574	-1.796	5.889	0.00	0.00	C
ATOM	659	C	MET	A	105	-0.545	-0.860	4.728	0.00	0.00	C
ATOM	660	O	MET	A	105	-0.947	-1.270	3.608	0.00	0.00	O
ATOM	661	CB	MET	A	105	-1.723	-1.502	6.887	0.00	0.00	C
ATOM	662	CG	MET	A	105	-1.940	-2.621	7.929	0.00	0.00	C

ATOM	663	SD	MET	A	105	-2.647	-4.092	7.149	0.00	0.00	S
ATOM	664	CE	MET	A	105	-2.577	-5.150	8.608	0.00	0.00	C
ATOM	665	N	LEU	A	106	-0.047	0.397	4.847	0.00	0.00	N
ATOM	666	CA	LEU	A	106	0.115	1.314	3.746	0.00	0.00	C
ATOM	667	C	LEU	A	106	0.796	0.734	2.561	0.00	0.00	C
ATOM	668	O	LEU	A	106	0.259	0.857	1.427	0.00	0.00	O
ATOM	669	CB	LEU	A	106	0.837	2.599	4.236	0.00	0.00	C
ATOM	670	CG	LEU	A	106	-0.101	3.657	4.883	0.00	0.00	C
ATOM	671	CD1	LEU	A	106	0.729	4.682	5.683	0.00	0.00	C
ATOM	672	CD2	LEU	A	106	-0.930	4.419	3.825	0.00	0.00	C
ATOM	673	N	PHE	A	107	1.965	0.073	2.715	0.00	0.00	N
ATOM	674	CA	PHE	A	107	2.667	-0.577	1.645	0.00	0.00	C
ATOM	675	C	PHE	A	107	1.837	-1.571	0.906	0.00	0.00	C
ATOM	676	O	PHE	A	107	1.680	-1.433	-0.335	0.00	0.00	O
ATOM	677	CB	PHE	A	107	3.955	-1.208	2.237	0.00	0.00	C
ATOM	678	CG	PHE	A	107	4.748	-1.975	1.249	0.00	0.00	C
ATOM	679	CD1	PHE	A	107	5.325	-1.337	0.136	0.00	0.00	C
ATOM	680	CD2	PHE	A	107	4.921	-3.362	1.403	0.00	0.00	C
ATOM	681	CE1	PHE	A	107	6.037	-2.079	-0.816	0.00	0.00	C
ATOM	682	CE2	PHE	A	107	5.638	-4.101	0.454	0.00	0.00	C
ATOM	683	CZ	PHE	A	107	6.189	-3.460	-0.661	0.00	0.00	C
ATOM	684	N	VAL	A	108	1.244	-2.592	1.566	0.00	0.00	N
ATOM	685	CA	VAL	A	108	0.437	-3.605	0.936	0.00	0.00	C
ATOM	686	C	VAL	A	108	-0.685	-3.005	0.165	0.00	0.00	C
ATOM	687	O	VAL	A	108	-0.912	-3.381	-1.014	0.00	0.00	O
ATOM	688	CB	VAL	A	108	-0.059	-4.635	1.998	0.00	0.00	C
ATOM	689	CG1	VAL	A	108	-0.959	-5.733	1.376	0.00	0.00	C
ATOM	690	CG2	VAL	A	108	1.125	-5.331	2.713	0.00	0.00	C
ATOM	691	N	MET	A	109	-1.434	-2.016	0.703	0.00	0.00	N
ATOM	692	CA	MET	A	109	-2.448	-1.347	-0.056	0.00	0.00	C
ATOM	693	C	MET	A	109	-1.935	-0.634	-1.246	0.00	0.00	C
ATOM	694	O	MET	A	109	-2.486	-0.840	-2.359	0.00	0.00	O
ATOM	695	CB	MET	A	109	-3.253	-0.370	0.829	0.00	0.00	C
ATOM	696	CG	MET	A	109	-4.148	-1.061	1.872	0.00	0.00	C
ATOM	697	SD	MET	A	109	-5.014	-2.524	1.270	0.00	0.00	S
ATOM	698	CE	MET	A	109	-6.039	-1.871	-0.052	0.00	0.00	C
ATOM	699	N	LEU	A	110	-0.894	0.225	-1.146	0.00	0.00	N
ATOM	700	CA	LEU	A	110	-0.352	0.912	-2.279	0.00	0.00	C
ATOM	701	C	LEU	A	110	0.011	-0.023	-3.364	0.00	0.00	C
ATOM	702	O	LEU	A	110	-0.382	0.232	-4.529	0.00	0.00	O
ATOM	703	CB	LEU	A	110	0.862	1.767	-1.852	0.00	0.00	C
ATOM	704	CG	LEU	A	110	1.420	2.687	-2.971	0.00	0.00	C
ATOM	705	CD1	LEU	A	110	0.391	3.733	-3.462	0.00	0.00	C
ATOM	706	CD2	LEU	A	110	2.682	3.404	-2.458	0.00	0.00	C
ATOM	707	N	GLU	A	111	0.682	-1.162	-3.078	0.00	0.00	N
ATOM	708	CA	GLU	A	111	0.922	-2.187	-4.045	0.00	0.00	C
ATOM	709	C	GLU	A	111	-0.327	-2.572	-4.756	0.00	0.00	C
ATOM	710	O	GLU	A	111	-0.441	-2.317	-5.981	0.00	0.00	O
ATOM	711	CB	GLU	A	111	1.584	-3.397	-3.339	0.00	0.00	C
ATOM	712	CG	GLU	A	111	1.868	-4.568	-4.313	0.00	0.00	C
ATOM	713	CD	GLU	A	111	2.149	-5.857	-3.683	0.00	0.00	C
ATOM	714	OE1	GLU	A	111	2.339	-5.994	-2.457	0.00	0.00	O
ATOM	715	OE2	GLU	A	111	2.220	-6.861	-4.420	0.00	0.00	O1-
ATOM	716	N	ALA	A	112	-1.354	-3.163	-4.107	0.00	0.00	N
ATOM	717	CA	ALA	A	112	-2.536	-3.619	-4.780	0.00	0.00	C
ATOM	718	C	ALA	A	112	-3.189	-2.572	-5.615	0.00	0.00	C
ATOM	719	O	ALA	A	112	-3.567	-2.839	-6.786	0.00	0.00	O
ATOM	720	CB	ALA	A	112	-3.488	-4.224	-3.735	0.00	0.00	C
ATOM	721	N	PHE	A	113	-3.308	-1.310	-5.150	0.00	0.00	N
ATOM	722	CA	PHE	A	113	-3.813	-0.231	-5.948	0.00	0.00	C
ATOM	723	C	PHE	A	113	-2.978	0.103	-7.137	0.00	0.00	C
ATOM	724	O	PHE	A	113	-3.537	0.229	-8.257	0.00	0.00	O
ATOM	725	CB	PHE	A	113	-4.063	1.000	-5.044	0.00	0.00	C
ATOM	726	CG	PHE	A	113	-5.153	0.795	-4.058	0.00	0.00	C
ATOM	727	CD1	PHE	A	113	-6.430	0.354	-4.457	0.00	0.00	C
ATOM	728	CD2	PHE	A	113	-4.935	1.062	-2.696	0.00	0.00	C
ATOM	729	CE1	PHE	A	113	-7.451	0.154	-3.521	0.00	0.00	C
ATOM	730	CE2	PHE	A	113	-5.964	0.884	-1.763	0.00	0.00	C
ATOM	731	CZ	PHE	A	113	-7.220	0.422	-2.169	0.00	0.00	C
ATOM	732	N	LEU	A	114	-1.635	0.238	-7.069	0.00	0.00	N
ATOM	733	CA	LEU	A	114	-0.807	0.426	-8.230	0.00	0.00	C
ATOM	734	C	LEU	A	114	-0.916	-0.681	-9.213	0.00	0.00	C
ATOM	735	O	LEU	A	114	-0.995	-0.427	-10.440	0.00	0.00	O
ATOM	736	CB	LEU	A	114	0.669	0.620	-7.811	0.00	0.00	C
ATOM	737	CG	LEU	A	114	0.963	1.977	-7.121	0.00	0.00	C
ATOM	738	CD1	LEU	A	114	2.432	1.995	-6.653	0.00	0.00	C
ATOM	739	CD2	LEU	A	114	0.684	3.181	-8.051	0.00	0.00	C

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ATOM	740	N	LEU	A	115	-0.970	-1.959	-8.789	0.00	0.00	N
ATOM	741	CA	LEU	A	115	-1.232	-3.080	-9.643	0.00	0.00	C
ATOM	742	C	LEU	A	115	-2.515	-2.924	-10.389	0.00	0.00	C
ATOM	743	O	LEU	A	115	-2.531	-3.055	-11.640	0.00	0.00	O
ATOM	744	CB	LEU	A	115	-1.219	-4.346	-8.752	0.00	0.00	C
ATOM	745	CG	LEU	A	115	0.180	-4.929	-8.419	0.00	0.00	C
ATOM	746	CD1	LEU	A	115	1.289	-3.937	-8.000	0.00	0.00	C
ATOM	747	CD2	LEU	A	115	0.029	-6.008	-7.341	0.00	0.00	C
ATOM	748	N	ALA	A	116	-3.650	-2.585	-9.736	0.00	0.00	N
ATOM	749	CA	ALA	A	116	-4.879	-2.237	-10.396	0.00	0.00	C
ATOM	750	C	ALA	A	116	-4.730	-1.150	-11.407	0.00	0.00	C
ATOM	751	O	ALA	A	116	-5.144	-1.328	-12.580	0.00	0.00	O
ATOM	752	CB	ALA	A	116	-5.916	-1.872	-9.316	0.00	0.00	C
ATOM	753	N	VAL	A	117	-4.101	0.006	-11.091	0.00	0.00	N
ATOM	754	CA	VAL	A	117	-3.787	1.038	-12.049	0.00	0.00	C
ATOM	755	C	VAL	A	117	-3.082	0.501	-13.240	0.00	0.00	C
ATOM	756	O	VAL	A	117	-3.549	0.742	-14.379	0.00	0.00	O
ATOM	757	CB	VAL	A	117	-3.003	2.192	-11.350	0.00	0.00	C
ATOM	758	CG1	VAL	A	117	-2.130	3.047	-12.302	0.00	0.00	C
ATOM	759	CG2	VAL	A	117	-3.984	3.122	-10.603	0.00	0.00	C
ATOM	760	N	MET	A	118	-1.968	-0.252	-13.104	0.00	0.00	N
ATOM	761	CA	MET	A	118	-1.260	-0.856	-14.195	0.00	0.00	C
ATOM	762	C	MET	A	118	-2.145	-1.674	-15.073	0.00	0.00	C
ATOM	763	O	MET	A	118	-2.113	-1.503	-16.319	0.00	0.00	O
ATOM	764	CB	MET	A	118	-0.080	-1.664	-13.603	0.00	0.00	C
ATOM	765	CG	MET	A	118	1.016	-1.974	-14.645	0.00	0.00	C
ATOM	766	SD	MET	A	118	2.390	-2.864	-13.884	0.00	0.00	S
ATOM	767	CE	MET	A	118	3.265	-1.477	-13.138	0.00	0.00	C
ATOM	768	N	ALA	A	119	-3.029	-2.544	-14.531	0.00	0.00	N
ATOM	769	CA	ALA	A	119	-4.040	-3.239	-15.283	0.00	0.00	C
ATOM	770	C	ALA	A	119	-4.875	-2.350	-16.132	0.00	0.00	C
ATOM	771	O	ALA	A	119	-4.972	-2.550	-17.370	0.00	0.00	O
ATOM	772	CB	ALA	A	119	-4.968	-4.007	-14.314	0.00	0.00	C
ATOM	773	N	TYR	A	120	-5.541	-1.332	-15.545	0.00	0.00	N
ATOM	774	CA	TYR	A	120	-6.401	-0.429	-16.254	0.00	0.00	C
ATOM	775	C	TYR	A	120	-5.683	0.345	-17.297	0.00	0.00	C
ATOM	776	O	TYR	A	120	-6.184	0.441	-18.445	0.00	0.00	O
ATOM	777	CB	TYR	A	120	-7.154	0.495	-15.264	0.00	0.00	C
ATOM	778	CG	TYR	A	120	-7.836	-0.208	-14.151	0.00	0.00	C
ATOM	779	CD1	TYR	A	120	-8.595	-1.376	-14.359	0.00	0.00	C
ATOM	780	CD2	TYR	A	120	-7.744	0.307	-12.846	0.00	0.00	C
ATOM	781	CE1	TYR	A	120	-9.213	-2.032	-13.286	0.00	0.00	C
ATOM	782	CE2	TYR	A	120	-8.378	-0.337	-11.775	0.00	0.00	C
ATOM	783	CZ	TYR	A	120	-9.105	-1.512	-11.992	0.00	0.00	C
ATOM	784	OH	TYR	A	120	-9.699	-2.136	-10.953	0.00	0.00	O
ATOM	785	N	ASP	A	121	-4.464	0.866	-17.036	0.00	0.00	N
ATOM	786	CA	ASP	A	121	-3.591	1.449	-18.010	0.00	0.00	C
ATOM	787	C	ASP	A	121	-3.377	0.545	-19.171	0.00	0.00	C
ATOM	788	O	ASP	A	121	-3.644	0.964	-20.324	0.00	0.00	O
ATOM	789	CB	ASP	A	121	-2.282	1.822	-17.269	0.00	0.00	C
ATOM	790	CG	ASP	A	121	-1.133	2.014	-18.151	0.00	0.00	C
ATOM	791	OD1	ASP	A	121	-1.122	2.903	-19.029	0.00	0.00	O
ATOM	792	OD2	ASP	A	121	-0.130	1.268	-18.077	0.00	0.00	O1-
ATOM	793	N	CYS	A	122	-2.932	-0.721	-18.997	0.00	0.00	N
ATOM	794	CA	CYS	A	122	-2.789	-1.662	-20.074	0.00	0.00	C
ATOM	795	C	CYS	A	122	-4.045	-1.838	-20.848	0.00	0.00	C
ATOM	796	O	CYS	A	122	-4.010	-1.725	-22.099	0.00	0.00	O
ATOM	797	CB	CYS	A	122	-2.294	-3.031	-19.556	0.00	0.00	C
ATOM	798	SG	CYS	A	122	-0.708	-2.904	-18.709	0.00	0.00	S
ATOM	799	N	TYR	A	123	-5.213	-2.086	-20.212	0.00	0.00	N
ATOM	800	CA	TYR	A	123	-6.480	-2.194	-20.879	0.00	0.00	C
ATOM	801	C	TYR	A	123	-6.781	-1.008	-21.723	0.00	0.00	C
ATOM	802	O	TYR	A	123	-7.050	-1.186	-22.935	0.00	0.00	O
ATOM	803	CB	TYR	A	123	-7.592	-2.469	-19.833	0.00	0.00	C
ATOM	804	CG	TYR	A	123	-8.826	-3.029	-20.435	0.00	0.00	C
ATOM	805	CD1	TYR	A	123	-9.715	-2.220	-21.166	0.00	0.00	C
ATOM	806	CD2	TYR	A	123	-9.131	-4.393	-20.281	0.00	0.00	C
ATOM	807	CE1	TYR	A	123	-10.868	-2.767	-21.746	0.00	0.00	C
ATOM	808	CE2	TYR	A	123	-10.281	-4.943	-20.861	0.00	0.00	C
ATOM	809	CZ	TYR	A	123	-11.150	-4.130	-21.596	0.00	0.00	C
ATOM	810	OH	TYR	A	123	-12.258	-4.664	-22.153	0.00	0.00	O
ATOM	811	N	VAL	A	124	-6.726	0.245	-21.216	0.00	0.00	N
ATOM	812	CA	VAL	A	124	-6.910	1.439	-21.996	0.00	0.00	C
ATOM	813	C	VAL	A	124	-5.949	1.504	-23.124	0.00	0.00	C
ATOM	814	O	VAL	A	124	-6.402	1.678	-24.280	0.00	0.00	O
ATOM	815	CB	VAL	A	124	-6.848	2.697	-21.076	0.00	0.00	C
ATOM	816	CG1	VAL	A	124	-6.637	4.024	-21.848	0.00	0.00	C

ATOM	817	CG2	VAL	A	124	-8.147	2.819	-20.246	0.00	0.00	C
ATOM	818	N	ALA	A	125	-4.620	1.350	-22.933	0.00	0.00	N
ATOM	819	CA	ALA	A	125	-3.653	1.370	-23.988	0.00	0.00	C
ATOM	820	C	ALA	A	125	-3.974	0.427	-25.087	0.00	0.00	C
ATOM	821	O	ALA	A	125	-3.930	0.834	-26.270	0.00	0.00	O
ATOM	822	CB	ALA	A	125	-2.265	1.059	-23.396	0.00	0.00	C
ATOM	823	N	ILE	A	126	-4.328	-0.846	-24.810	0.00	0.00	N
ATOM	824	CA	ILE	A	126	-4.770	-1.792	-25.794	0.00	0.00	C
ATOM	825	C	ILE	A	126	-6.058	-1.412	-26.428	0.00	0.00	C
ATOM	826	O	ILE	A	126	-6.105	-1.404	-27.681	0.00	0.00	O
ATOM	827	CB	ILE	A	126	-4.782	-3.211	-25.141	0.00	0.00	C
ATOM	828	CG1	ILE	A	126	-3.334	-3.743	-24.933	0.00	0.00	C
ATOM	829	CG2	ILE	A	126	-5.652	-4.258	-25.884	0.00	0.00	C
ATOM	830	CD1	ILE	A	126	-2.597	-4.193	-26.215	0.00	0.00	C
ATOM	831	N	CYS	A	127	-7.177	-1.120	-25.727	0.00	0.00	N
ATOM	832	CA	CYS	A	127	-8.440	-0.866	-26.358	0.00	0.00	C
ATOM	833	C	CYS	A	127	-8.576	0.450	-27.025	0.00	0.00	C
ATOM	834	O	CYS	A	127	-9.376	0.523	-27.988	0.00	0.00	O
ATOM	835	CB	CYS	A	127	-9.612	-1.117	-25.380	0.00	0.00	C
ATOM	836	SG	CYS	A	127	-9.962	0.270	-24.275	0.00	0.00	S
ATOM	837	N	HIS	A	128	-7.963	1.574	-26.581	0.00	0.00	N
ATOM	838	CA	HIS	A	128	-8.168	2.872	-27.156	0.00	0.00	C
ATOM	839	C	HIS	A	128	-6.940	3.566	-27.635	0.00	0.00	C
ATOM	840	O	HIS	A	128	-6.772	4.762	-27.294	0.00	0.00	O
ATOM	841	CB	HIS	A	128	-8.997	3.732	-26.155	0.00	0.00	C
ATOM	842	CG	HIS	A	128	-10.440	3.459	-26.199	0.00	0.00	C
ATOM	843	ND1	HIS	A	128	-11.037	2.424	-26.799	0.00	0.00	N
ATOM	844	CD2	HIS	A	128	-11.451	4.254	-25.676	0.00	0.00	C
ATOM	845	CE1	HIS	A	128	-12.364	2.574	-26.690	0.00	0.00	C
ATOM	846	NE2	HIS	A	128	-12.628	3.705	-26.011	0.00	0.00	N
ATOM	847	N	PRO	A	129	-6.106	3.076	-28.596	0.00	0.00	N1+
ATOM	848	CA	PRO	A	129	-5.313	3.942	-29.428	0.00	0.00	C
ATOM	849	C	PRO	A	129	-6.176	4.510	-30.465	0.00	0.00	C
ATOM	850	O	PRO	A	129	-5.920	4.426	-31.656	0.00	0.00	O
ATOM	851	CB	PRO	A	129	-4.204	2.997	-29.927	0.00	0.00	C
ATOM	852	CG	PRO	A	129	-4.899	1.633	-30.020	0.00	0.00	C
ATOM	853	CD	PRO	A	129	-6.020	1.703	-28.972	0.00	0.00	C
ATOM	854	N	LEU	A	130	-7.303	5.051	-30.050	0.00	0.00	N
ATOM	855	CA	LEU	A	130	-8.430	5.431	-30.845	0.00	0.00	C
ATOM	856	C	LEU	A	130	-8.832	6.816	-30.528	0.00	0.00	C
ATOM	857	O	LEU	A	130	-8.486	7.733	-31.309	0.00	0.00	O
ATOM	858	CB	LEU	A	130	-9.548	4.388	-30.573	0.00	0.00	C
ATOM	859	CG	LEU	A	130	-10.871	4.593	-31.358	0.00	0.00	C
ATOM	860	CD1	LEU	A	130	-10.678	4.412	-32.880	0.00	0.00	C
ATOM	861	CD2	LEU	A	130	-11.936	3.600	-30.846	0.00	0.00	C
ATOM	862	N	HIS	A	131	-9.501	7.104	-29.386	0.00	0.00	N
ATOM	863	CA	HIS	A	131	-9.858	8.423	-28.937	0.00	0.00	C
ATOM	864	C	HIS	A	131	-8.673	9.105	-28.351	0.00	0.00	C
ATOM	865	O	HIS	A	131	-8.728	9.816	-27.312	0.00	0.00	O
ATOM	866	CB	HIS	A	131	-11.049	8.293	-27.949	0.00	0.00	C
ATOM	867	CG	HIS	A	131	-12.212	7.599	-28.534	0.00	0.00	C
ATOM	868	ND1	HIS	A	131	-12.765	6.450	-28.113	0.00	0.00	N
ATOM	869	CD2	HIS	A	131	-12.959	8.014	-29.632	0.00	0.00	C
ATOM	870	CE1	HIS	A	131	-13.803	6.163	-28.910	0.00	0.00	C
ATOM	871	NE2	HIS	A	131	-13.929	7.114	-29.848	0.00	0.00	N
ATOM	872	N	TYR	A	132	-7.505	8.929	-29.005	0.00	0.00	N
ATOM	873	CA	TYR	A	132	-6.207	9.270	-28.524	0.00	0.00	C
ATOM	874	C	TYR	A	132	-5.876	10.685	-28.788	0.00	0.00	C
ATOM	875	O	TYR	A	132	-4.836	11.072	-29.365	0.00	0.00	O
ATOM	876	CB	TYR	A	132	-5.167	8.218	-28.991	0.00	0.00	C
ATOM	877	CG	TYR	A	132	-3.960	8.261	-28.134	0.00	0.00	C
ATOM	878	CD1	TYR	A	132	-4.079	8.002	-26.758	0.00	0.00	C
ATOM	879	CD2	TYR	A	132	-2.698	8.599	-28.653	0.00	0.00	C
ATOM	880	CE1	TYR	A	132	-2.992	8.194	-25.905	0.00	0.00	C
ATOM	881	CE2	TYR	A	132	-1.594	8.744	-27.798	0.00	0.00	C
ATOM	882	CZ	TYR	A	132	-1.750	8.576	-26.417	0.00	0.00	C
ATOM	883	OH	TYR	A	132	-0.737	8.798	-25.553	0.00	0.00	O
ATOM	884	N	ILE	A	133	-6.769	11.533	-28.261	0.00	0.00	N
ATOM	885	CA	ILE	A	133	-6.637	12.930	-28.056	0.00	0.00	C
ATOM	886	C	ILE	A	133	-6.672	13.122	-26.580	0.00	0.00	C
ATOM	887	O	ILE	A	133	-6.084	14.114	-26.093	0.00	0.00	O
ATOM	888	CB	ILE	A	133	-7.746	13.709	-28.835	0.00	0.00	C
ATOM	889	CG1	ILE	A	133	-7.755	13.398	-30.363	0.00	0.00	C
ATOM	890	CG2	ILE	A	133	-7.592	15.240	-28.652	0.00	0.00	C
ATOM	891	CD1	ILE	A	133	-8.693	12.238	-30.756	0.00	0.00	C
ATOM	892	N	LEU	A	134	-7.298	12.233	-25.764	0.00	0.00	N
ATOM	893	CA	LEU	A	134	-7.386	12.373	-24.335	0.00	0.00	C

ATOM	894	C	LEU	A	134	-6.738	11.281	-23.552	0.00	0.00	C
ATOM	895	O	LEU	A	134	-5.849	11.563	-22.718	0.00	0.00	O
ATOM	896	CB	LEU	A	134	-8.881	12.464	-23.902	0.00	0.00	C
ATOM	897	CG	LEU	A	134	-9.698	13.741	-24.249	0.00	0.00	C
ATOM	898	CD1	LEU	A	134	-9.009	15.048	-23.802	0.00	0.00	C
ATOM	899	CD2	LEU	A	134	-10.104	13.825	-25.734	0.00	0.00	C
ATOM	900	N	ILE	A	135	-7.200	10.014	-23.615	0.00	0.00	N
ATOM	901	CA	ILE	A	135	-7.157	9.058	-22.538	0.00	0.00	C
ATOM	902	C	ILE	A	135	-5.883	8.532	-21.967	0.00	0.00	C
ATOM	903	O	ILE	A	135	-5.988	7.923	-20.877	0.00	0.00	O
ATOM	904	CB	ILE	A	135	-8.137	7.880	-22.846	0.00	0.00	C
ATOM	905	CG1	ILE	A	135	-7.680	6.932	-23.991	0.00	0.00	C
ATOM	906	CG2	ILE	A	135	-9.596	8.368	-23.036	0.00	0.00	C
ATOM	907	CD1	ILE	A	135	-7.783	7.507	-25.414	0.00	0.00	C
ATOM	908	N	MET	A	136	-4.641	8.640	-22.496	0.00	0.00	N
ATOM	909	CA	MET	A	136	-3.463	8.146	-21.821	0.00	0.00	C
ATOM	910	C	MET	A	136	-2.334	9.102	-21.931	0.00	0.00	C
ATOM	911	O	MET	A	136	-1.519	9.024	-22.883	0.00	0.00	O
ATOM	912	CB	MET	A	136	-3.111	6.701	-22.278	0.00	0.00	C
ATOM	913	CG	MET	A	136	-1.945	6.078	-21.469	0.00	0.00	C
ATOM	914	SD	MET	A	136	-1.474	4.416	-22.010	0.00	0.00	S
ATOM	915	CE	MET	A	136	-0.796	4.839	-23.630	0.00	0.00	C
ATOM	916	N	SER	A	137	-2.187	10.049	-20.978	0.00	0.00	N1+
ATOM	917	CA	SER	A	137	-1.139	11.026	-20.930	0.00	0.00	C
ATOM	918	C	SER	A	137	-0.421	11.073	-19.619	0.00	0.00	C
ATOM	919	O	SER	A	137	-0.923	10.492	-18.622	0.00	0.00	O
ATOM	920	CB	SER	A	137	-1.777	12.398	-21.256	0.00	0.00	C
ATOM	921	OG	SER	A	137	-2.528	12.893	-20.146	0.00	0.00	O
ATOM	922	N	PRO	A	138	0.746	11.758	-19.432	0.00	0.00	N
ATOM	923	CA	PRO	A	138	1.384	11.890	-18.147	0.00	0.00	C
ATOM	924	C	PRO	A	138	0.544	12.498	-17.086	0.00	0.00	C
ATOM	925	O	PRO	A	138	0.560	11.999	-15.939	0.00	0.00	O
ATOM	926	CB	PRO	A	138	2.658	12.715	-18.415	0.00	0.00	C
ATOM	927	CG	PRO	A	138	2.900	12.539	-19.915	0.00	0.00	C
ATOM	928	CD	PRO	A	138	1.484	12.397	-20.478	0.00	0.00	C
ATOM	929	N	GLY	A	139	-0.270	13.545	-17.346	0.00	0.00	N
ATOM	930	CA	GLY	A	139	-1.181	14.112	-16.391	0.00	0.00	C
ATOM	931	C	GLY	A	139	-2.104	13.122	-15.799	0.00	0.00	C
ATOM	932	O	GLY	A	139	-2.263	13.047	-14.557	0.00	0.00	O
ATOM	933	N	LEU	A	140	-2.735	12.260	-16.619	0.00	0.00	N
ATOM	934	CA	LEU	A	140	-3.558	11.187	-16.165	0.00	0.00	C
ATOM	935	C	LEU	A	140	-2.769	10.185	-15.412	0.00	0.00	O
ATOM	936	O	LEU	A	140	-3.215	9.786	-14.314	0.00	0.00	O
ATOM	937	CB	LEU	A	140	-4.314	10.570	-17.364	0.00	0.00	C
ATOM	938	CG	LEU	A	140	-5.180	11.596	-18.149	0.00	0.00	C
ATOM	939	CD1	LEU	A	140	-5.814	10.917	-19.377	0.00	0.00	C
ATOM	940	CD2	LEU	A	140	-6.286	12.240	-17.283	0.00	0.00	C
ATOM	941	N	CYS	A	141	-1.553	9.764	-15.831	0.00	0.00	N
ATOM	942	CA	CYS	A	141	-0.688	8.957	-15.009	0.00	0.00	C
ATOM	943	C	CYS	A	141	-0.508	9.534	-13.644	0.00	0.00	C
ATOM	944	O	CYS	A	141	-0.797	8.840	-12.642	0.00	0.00	O
ATOM	945	CB	CYS	A	141	0.678	8.709	-15.692	0.00	0.00	C
ATOM	946	SG	CYS	A	141	0.506	8.001	-17.346	0.00	0.00	S
ATOM	947	N	ILE	A	142	-0.123	10.819	-13.471	0.00	0.00	N
ATOM	948	CA	ILE	A	142	-0.043	11.489	-12.193	0.00	0.00	C
ATOM	949	C	ILE	A	142	-1.322	11.384	-11.433	0.00	0.00	C
ATOM	950	O	ILE	A	142	-1.305	10.954	-10.253	0.00	0.00	O
ATOM	951	CB	ILE	A	142	0.409	12.975	-12.370	0.00	0.00	C
ATOM	952	CG1	ILE	A	142	1.815	13.059	-13.029	0.00	0.00	C
ATOM	953	CG2	ILE	A	142	0.425	13.736	-11.017	0.00	0.00	C
ATOM	954	CD1	ILE	A	142	2.191	14.466	-13.538	0.00	0.00	C
ATOM	955	N	PHE	A	143	-2.501	11.717	-12.003	0.00	0.00	N
ATOM	956	CA	PHE	A	143	-3.776	11.530	-11.364	0.00	0.00	C
ATOM	957	C	PHE	A	143	-3.991	10.142	-10.860	0.00	0.00	C
ATOM	958	O	PHE	A	143	-4.373	9.966	-9.679	0.00	0.00	O
ATOM	959	CB	PHE	A	143	-4.883	11.969	-12.355	0.00	0.00	C
ATOM	960	CG	PHE	A	143	-6.227	12.056	-11.742	0.00	0.00	C
ATOM	961	CD1	PHE	A	143	-6.505	13.026	-10.763	0.00	0.00	C
ATOM	962	CD2	PHE	A	143	-7.250	11.178	-12.141	0.00	0.00	C
ATOM	963	CE1	PHE	A	143	-7.781	13.115	-10.192	0.00	0.00	C
ATOM	964	CE2	PHE	A	143	-8.526	11.269	-11.572	0.00	0.00	C
ATOM	965	CZ	PHE	A	143	-8.793	12.237	-10.597	0.00	0.00	C
ATOM	966	N	LEU	A	144	-3.738	9.069	-11.642	0.00	0.00	N
ATOM	967	CA	LEU	A	144	-3.794	7.700	-11.199	0.00	0.00	C
ATOM	968	C	LEU	A	144	-2.898	7.422	-10.040	0.00	0.00	C
ATOM	969	O	LEU	A	144	-3.335	6.789	-9.047	0.00	0.00	O
ATOM	970	CB	LEU	A	144	-3.473	6.745	-12.380	0.00	0.00	C

ATOM	971	CG	LEU	A	144	-4.440	6.836	-13.593	0.00	0.00	C
ATOM	972	CD1	LEU	A	144	-3.905	5.988	-14.769	0.00	0.00	C
ATOM	973	CD2	LEU	A	144	-5.879	6.397	-13.246	0.00	0.00	C
ATOM	974	N	VAL	A	145	-1.625	7.877	-10.024	0.00	0.00	N
ATOM	975	CA	VAL	A	145	-0.756	7.798	-8.875	0.00	0.00	C
ATOM	976	C	VAL	A	145	-1.379	8.423	-7.675	0.00	0.00	C
ATOM	977	O	VAL	A	145	-1.502	7.762	-6.614	0.00	0.00	O
ATOM	978	CB	VAL	A	145	0.631	8.434	-9.196	0.00	0.00	C
ATOM	979	CG1	VAL	A	145	1.618	8.356	-8.006	0.00	0.00	C
ATOM	980	CG2	VAL	A	145	1.289	7.737	-10.401	0.00	0.00	C
ATOM	981	N	SER	A	146	-1.851	9.687	-7.734	0.00	0.00	N
ATOM	982	CA	SER	A	146	-2.538	10.332	-6.648	0.00	0.00	C
ATOM	983	C	SER	A	146	-3.709	9.560	-6.161	0.00	0.00	C
ATOM	984	O	SER	A	146	-3.823	9.322	-4.934	0.00	0.00	O
ATOM	985	CB	SER	A	146	-2.960	11.759	-7.058	0.00	0.00	C
ATOM	986	OG	SER	A	146	-1.821	12.546	-7.398	0.00	0.00	O
ATOM	987	N	ALA	A	147	-4.616	9.064	-7.032	0.00	0.00	N
ATOM	988	CA	ALA	A	147	-5.682	8.176	-6.671	0.00	0.00	C
ATOM	989	C	ALA	A	147	-5.206	6.980	-5.929	0.00	0.00	C
ATOM	990	O	ALA	A	147	-5.736	6.693	-4.832	0.00	0.00	O
ATOM	991	CB	ALA	A	147	-6.453	7.777	-7.945	0.00	0.00	C
ATOM	992	N	SER	A	148	-4.182	6.234	-6.399	0.00	0.00	N
ATOM	993	CA	SER	A	148	-3.584	5.132	-5.693	0.00	0.00	C
ATOM	994	C	SER	A	148	-3.193	5.468	-4.301	0.00	0.00	C
ATOM	995	O	SER	A	148	-3.623	4.768	-3.352	0.00	0.00	O
ATOM	996	CB	SER	A	148	-2.367	4.588	-6.471	0.00	0.00	C
ATOM	997	OG	SER	A	148	-2.694	4.349	-7.837	0.00	0.00	O
ATOM	998	N	TRP	A	149	-2.423	6.552	-4.057	0.00	0.00	N
ATOM	999	CA	TRP	A	149	-2.105	7.018	-2.733	0.00	0.00	C
ATOM	1000	C	TRP	A	149	-3.313	7.335	-1.922	0.00	0.00	C
ATOM	1001	O	TRP	A	149	-3.414	6.867	-0.764	0.00	0.00	O
ATOM	1002	CB	TRP	A	149	-1.160	8.240	-2.818	0.00	0.00	C
ATOM	1003	CG	TRP	A	149	0.113	7.931	-3.500	0.00	0.00	C
ATOM	1004	CD1	TRP	A	149	0.254	7.476	-4.809	0.00	0.00	C
ATOM	1005	CD2	TRP	A	149	1.407	8.070	-3.005	0.00	0.00	C
ATOM	1006	NE1	TRP	A	149	1.560	7.342	-5.099	0.00	0.00	N
ATOM	1007	CE2	TRP	A	149	2.278	7.708	-4.029	0.00	0.00	C
ATOM	1008	CE3	TRP	A	149	1.902	8.497	-1.766	0.00	0.00	C
ATOM	1009	CZ2	TRP	A	149	3.664	7.772	-3.866	0.00	0.00	C
ATOM	1010	CZ3	TRP	A	149	3.292	8.565	-1.588	0.00	0.00	C
ATOM	1011	CH2	TRP	A	149	4.165	8.215	-2.632	0.00	0.00	C
ATOM	1012	N	ILE	A	150	-4.328	8.086	-2.406	0.00	0.00	N
ATOM	1013	CA	ILE	A	150	-5.563	8.310	-1.691	0.00	0.00	C
ATOM	1014	C	ILE	A	150	-6.207	7.032	-1.284	0.00	0.00	C
ATOM	1015	O	ILE	A	150	-6.546	6.866	-0.086	0.00	0.00	O
ATOM	1016	CB	ILE	A	150	-6.507	9.229	-2.528	0.00	0.00	C
ATOM	1017	CG1	ILE	A	150	-5.942	10.678	-2.546	0.00	0.00	C
ATOM	1018	CG2	ILE	A	150	-7.968	9.221	-2.000	0.00	0.00	C
ATOM	1019	CD1	ILE	A	150	-6.652	11.629	-3.530	0.00	0.00	C
ATOM	1020	N	MET	A	151	-6.413	6.046	-2.181	0.00	0.00	N
ATOM	1021	CA	MET	A	151	-6.963	4.766	-1.844	0.00	0.00	C
ATOM	1022	C	MET	A	151	-6.167	4.062	-0.801	0.00	0.00	C
ATOM	1023	O	MET	A	151	-6.766	3.570	0.190	0.00	0.00	O
ATOM	1024	CB	MET	A	151	-7.122	3.912	-3.124	0.00	0.00	C
ATOM	1025	CG	MET	A	151	-8.153	4.475	-4.128	0.00	0.00	C
ATOM	1026	SD	MET	A	151	-8.562	3.283	-5.427	0.00	0.00	S
ATOM	1027	CE	MET	A	151	-7.043	3.403	-6.394	0.00	0.00	C
ATOM	1028	N	ASN	A	152	-4.815	3.981	-0.881	0.00	0.00	N
ATOM	1029	CA	ASN	A	152	-3.986	3.437	0.162	0.00	0.00	C
ATOM	1030	C	ASN	A	152	-4.222	4.108	1.466	0.00	0.00	C
ATOM	1031	O	ASN	A	152	-4.601	3.409	2.440	0.00	0.00	O
ATOM	1032	CB	ASN	A	152	-2.509	3.305	-0.319	0.00	0.00	C
ATOM	1033	CG	ASN	A	152	-1.461	4.109	0.325	0.00	0.00	C
ATOM	1034	OD1	ASN	A	152	-1.487	5.353	0.310	0.00	0.00	O
ATOM	1035	ND2	ASN	A	152	-0.391	3.566	0.914	0.00	0.00	N
ATOM	1036	N	ALA	A	153	-4.148	5.451	1.584	0.00	0.00	N
ATOM	1037	CA	ALA	A	153	-4.462	6.172	2.783	0.00	0.00	C
ATOM	1038	C	ALA	A	153	-5.794	5.818	3.338	0.00	0.00	C
ATOM	1039	O	ALA	A	153	-5.890	5.447	4.535	0.00	0.00	O
ATOM	1040	CB	ALA	A	153	-4.355	7.683	2.493	0.00	0.00	C
ATOM	1041	N	LEU	A	154	-6.886	5.843	2.541	0.00	0.00	N
ATOM	1042	CA	LEU	A	154	-8.193	5.442	2.965	0.00	0.00	C
ATOM	1043	C	LEU	A	154	-8.218	4.073	3.539	0.00	0.00	C
ATOM	1044	O	LEU	A	154	-8.632	3.926	4.713	0.00	0.00	O
ATOM	1045	CB	LEU	A	154	-9.176	5.576	1.773	0.00	0.00	C
ATOM	1046	CG	LEU	A	154	-10.661	5.269	2.117	0.00	0.00	C
ATOM	1047	CD1	LEU	A	154	-11.257	6.294	3.108	0.00	0.00	C

ATOM	1048	CD2	LEU	A	154	-11.508	5.234	0.827	0.00	0.00	C
ATOM	1049	N	HIS	A	155	-7.809	2.995	2.833	0.00	0.00	N
ATOM	1050	CA	HIS	A	155	-7.893	1.665	3.370	0.00	0.00	C
ATOM	1051	C	HIS	A	155	-6.952	1.398	4.483	0.00	0.00	C
ATOM	1052	O	HIS	A	155	-7.333	0.598	5.368	0.00	0.00	O
ATOM	1053	CB	HIS	A	155	-7.770	0.581	2.267	0.00	0.00	C
ATOM	1054	CG	HIS	A	155	-9.082	0.204	1.710	0.00	0.00	C
ATOM	1055	ND1	HIS	A	155	-9.649	-1.015	1.725	0.00	0.00	N
ATOM	1056	CD2	HIS	A	155	-9.985	1.053	1.079	0.00	0.00	C
ATOM	1057	CE1	HIS	A	155	-10.858	-0.919	1.152	0.00	0.00	C
ATOM	1058	NE2	HIS	A	155	-11.072	0.343	0.747	0.00	0.00	N
ATOM	1059	N	SER	A	156	-5.714	1.933	4.565	0.00	0.00	N
ATOM	1060	CA	SER	A	156	-4.773	1.550	5.582	0.00	0.00	C
ATOM	1061	C	SER	A	156	-4.290	2.570	6.535	0.00	0.00	C
ATOM	1062	O	SER	A	156	-3.702	2.140	7.554	0.00	0.00	O
ATOM	1063	CB	SER	A	156	-3.576	0.901	4.877	0.00	0.00	C
ATOM	1064	OG	SER	A	156	-2.974	1.760	3.919	0.00	0.00	O
ATOM	1065	N	LEU	A	157	-4.471	3.902	6.410	0.00	0.00	N
ATOM	1066	CA	LEU	A	157	-4.026	4.846	7.391	0.00	0.00	C
ATOM	1067	C	LEU	A	157	-5.183	5.226	8.223	0.00	0.00	C
ATOM	1068	O	LEU	A	157	-5.117	5.144	9.474	0.00	0.00	O
ATOM	1069	CB	LEU	A	157	-3.396	6.056	6.656	0.00	0.00	C
ATOM	1070	CG	LEU	A	157	-2.859	7.190	7.566	0.00	0.00	C
ATOM	1071	CD1	LEU	A	157	-1.665	6.736	8.436	0.00	0.00	C
ATOM	1072	CD2	LEU	A	157	-2.453	8.402	6.700	0.00	0.00	C
ATOM	1073	N	LEU	A	158	-6.320	5.622	7.611	0.00	0.00	N
ATOM	1074	CA	LEU	A	158	-7.495	6.020	8.322	0.00	0.00	C
ATOM	1075	C	LEU	A	158	-7.973	4.977	9.254	0.00	0.00	C
ATOM	1076	O	LEU	A	158	-8.143	5.302	10.449	0.00	0.00	O
ATOM	1077	CB	LEU	A	158	-8.614	6.450	7.339	0.00	0.00	C
ATOM	1078	CG	LEU	A	158	-8.615	7.953	6.950	0.00	0.00	C
ATOM	1079	CD1	LEU	A	158	-8.935	8.867	8.156	0.00	0.00	C
ATOM	1080	CD2	LEU	A	158	-7.305	8.396	6.263	0.00	0.00	C
ATOM	1081	N	HIS	A	159	-8.186	3.699	8.868	0.00	0.00	N
ATOM	1082	CA	HIS	A	159	-8.606	2.662	9.766	0.00	0.00	C
ATOM	1083	C	HIS	A	159	-7.740	2.524	10.923	0.00	0.00	C
ATOM	1084	O	HIS	A	159	-8.240	2.633	12.033	0.00	0.00	O
ATOM	1085	CB	HIS	A	159	-8.748	1.312	9.023	0.00	0.00	C
ATOM	1086	CG	HIS	A	159	-9.826	1.355	8.024	0.00	0.00	C
ATOM	1087	ND1	HIS	A	159	-9.678	1.175	6.708	0.00	0.00	N
ATOM	1088	CD2	HIS	A	159	-11.181	1.588	8.239	0.00	0.00	C
ATOM	1089	CE1	HIS	A	159	-10.875	1.307	6.120	0.00	0.00	C
ATOM	1090	NE2	HIS	A	159	-11.806	1.561	7.052	0.00	0.00	N
ATOM	1091	N	THR	A	160	-6.437	2.350	10.819	0.00	0.00	N
ATOM	1092	CA	THR	A	160	-5.565	2.275	11.956	0.00	0.00	C
ATOM	1093	C	THR	A	160	-5.681	3.495	12.790	0.00	0.00	C
ATOM	1094	O	THR	A	160	-5.997	3.354	13.996	0.00	0.00	O
ATOM	1095	CB	THR	A	160	-4.089	2.033	11.562	0.00	0.00	C
ATOM	1096	OG1	THR	A	160	-3.607	3.120	10.786	0.00	0.00	O
ATOM	1097	CG2	THR	A	160	-3.858	0.727	10.784	0.00	0.00	C
ATOM	1098	N	LEU	A	161	-5.568	4.739	12.256	0.00	0.00	N
ATOM	1099	CA	LEU	A	161	-5.773	5.932	13.028	0.00	0.00	C
ATOM	1100	C	LEU	A	161	-7.147	6.079	13.583	0.00	0.00	C
ATOM	1101	O	LEU	A	161	-7.371	7.058	14.332	0.00	0.00	O
ATOM	1102	CB	LEU	A	161	-5.420	7.186	12.182	0.00	0.00	C
ATOM	1103	CG	LEU	A	161	-3.941	7.326	11.731	0.00	0.00	C
ATOM	1104	CD1	LEU	A	161	-3.790	8.614	10.894	0.00	0.00	C
ATOM	1105	CD2	LEU	A	161	-2.952	7.380	12.914	0.00	0.00	C
ATOM	1106	N	LEU	A	162	-8.138	5.183	13.363	0.00	0.00	N
ATOM	1107	CA	LEU	A	162	-9.436	5.254	13.954	0.00	0.00	C
ATOM	1108	C	LEU	A	162	-9.630	4.163	14.939	0.00	0.00	C
ATOM	1109	O	LEU	A	162	-10.697	4.195	15.598	0.00	0.00	O
ATOM	1110	CB	LEU	A	162	-10.509	5.189	12.830	0.00	0.00	C
ATOM	1111	CG	LEU	A	162	-10.699	6.509	12.037	0.00	0.00	C
ATOM	1112	CD1	LEU	A	162	-11.453	6.230	10.718	0.00	0.00	C
ATOM	1113	CD2	LEU	A	162	-11.476	7.564	12.857	0.00	0.00	C
ATOM	1114	N	MET	A	163	-8.704	3.186	15.146	0.00	0.00	N1+
ATOM	1115	CA	MET	A	163	-8.791	2.083	16.074	0.00	0.00	C
ATOM	1116	C	MET	A	163	-9.857	1.080	15.788	0.00	0.00	C
ATOM	1117	O	MET	A	163	-9.589	-0.145	15.822	0.00	0.00	O
ATOM	1118	CB	MET	A	163	-8.850	2.619	17.529	0.00	0.00	C
ATOM	1119	CG	MET	A	163	-8.720	1.513	18.599	0.00	0.00	C
ATOM	1120	SD	MET	A	163	-8.513	2.194	20.261	0.00	0.00	S
ATOM	1121	CE	MET	A	163	-10.190	2.816	20.506	0.00	0.00	C
ATOM	1122	N	ASN	A	164	-11.103	1.513	15.510	0.00	0.00	N
ATOM	1123	CA	ASN	A	164	-12.287	0.773	15.168	0.00	0.00	C
ATOM	1124	C	ASN	A	164	-12.835	-0.037	16.282	0.00	0.00	C

ATOM	1125	O	ASN	A	164	-14.048	0.056	16.578	0.00	0.00	O
ATOM	1126	CB	ASN	A	164	-12.089	-0.085	13.888	0.00	0.00	C
ATOM	1127	CG	ASN	A	164	-11.926	0.725	12.674	0.00	0.00	C
ATOM	1128	OD1	ASN	A	164	-12.700	0.594	11.705	0.00	0.00	O
ATOM	1129	ND2	ASN	A	164	-10.951	1.627	12.555	0.00	0.00	N
ATOM	1130	N	SER	A	165	-12.034	-0.886	16.950	0.00	0.00	N
ATOM	1131	CA	SER	A	165	-12.478	-1.802	17.961	0.00	0.00	C
ATOM	1132	C	SER	A	165	-12.564	-1.244	19.328	0.00	0.00	C
ATOM	1133	O	SER	A	165	-11.913	-0.231	19.664	0.00	0.00	O
ATOM	1134	CB	SER	A	165	-11.571	-3.049	17.948	0.00	0.00	C
ATOM	1135	OG	SER	A	165	-11.706	-3.832	19.134	0.00	0.00	O
ATOM	1136	N	LEU	A	166	-13.335	-1.906	20.215	0.00	0.00	N
ATOM	1137	CA	LEU	A	166	-13.513	-1.600	21.600	0.00	0.00	C
ATOM	1138	C	LEU	A	166	-13.040	-2.725	22.456	0.00	0.00	C
ATOM	1139	O	LEU	A	166	-13.052	-2.608	23.706	0.00	0.00	O
ATOM	1140	CB	LEU	A	166	-15.032	-1.304	21.745	0.00	0.00	C
ATOM	1141	CG	LEU	A	166	-15.503	-0.654	23.074	0.00	0.00	C
ATOM	1142	CD1	LEU	A	166	-14.906	0.755	23.282	0.00	0.00	C
ATOM	1143	CD2	LEU	A	166	-17.046	-0.563	23.085	0.00	0.00	C
ATOM	1144	N	SER	A	167	-12.558	-3.867	21.909	0.00	0.00	N
ATOM	1145	CA	SER	A	167	-12.193	-5.044	22.646	0.00	0.00	C
ATOM	1146	C	SER	A	167	-10.819	-4.951	23.190	0.00	0.00	C
ATOM	1147	O	SER	A	167	-9.890	-5.678	22.766	0.00	0.00	O
ATOM	1148	CB	SER	A	167	-12.400	-6.296	21.761	0.00	0.00	C
ATOM	1149	OG	SER	A	167	-13.779	-6.452	21.438	0.00	0.00	O
ATOM	1150	N	PHE	A	168	-10.598	-4.045	24.161	0.00	0.00	N
ATOM	1151	CA	PHE	A	168	-9.361	-3.853	24.861	0.00	0.00	C
ATOM	1152	C	PHE	A	168	-9.523	-3.983	26.330	0.00	0.00	C
ATOM	1153	O	PHE	A	168	-10.336	-3.251	26.938	0.00	0.00	O
ATOM	1154	CB	PHE	A	168	-8.791	-2.464	24.476	0.00	0.00	C
ATOM	1155	CG	PHE	A	168	-8.381	-2.410	23.055	0.00	0.00	C
ATOM	1156	CD1	PHE	A	168	-7.227	-3.088	22.623	0.00	0.00	C
ATOM	1157	CD2	PHE	A	168	-9.142	-1.694	22.116	0.00	0.00	C
ATOM	1158	CE1	PHE	A	168	-6.845	-3.057	21.276	0.00	0.00	C
ATOM	1159	CE2	PHE	A	168	-8.762	-1.666	20.768	0.00	0.00	C
ATOM	1160	CZ	PHE	A	168	-7.614	-2.346	20.347	0.00	0.00	C
ATOM	1161	N	CYS	A	169	-8.778	-4.886	27.005	0.00	0.00	N
ATOM	1162	CA	CYS	A	169	-8.772	-5.089	28.427	0.00	0.00	C
ATOM	1163	C	CYS	A	169	-7.390	-5.045	28.960	0.00	0.00	C
ATOM	1164	O	CYS	A	169	-6.430	-5.320	28.203	0.00	0.00	O
ATOM	1165	CB	CYS	A	169	-9.432	-6.458	28.704	0.00	0.00	C
ATOM	1166	SG	CYS	A	169	-9.623	-6.796	30.469	0.00	0.00	S
ATOM	1167	N	ALA	A	170	-7.155	-4.732	30.252	0.00	0.00	N
ATOM	1168	CA	ALA	A	170	-5.868	-4.752	30.878	0.00	0.00	C
ATOM	1169	C	ALA	A	170	-5.956	-5.423	32.197	0.00	0.00	C
ATOM	1170	O	ALA	A	170	-5.011	-5.328	33.014	0.00	0.00	O
ATOM	1171	CB	ALA	A	170	-5.423	-3.280	31.020	0.00	0.00	C
ATOM	1172	N	ASN	A	171	-7.088	-6.074	32.540	0.00	0.00	N
ATOM	1173	CA	ASN	A	171	-7.467	-6.412	33.874	0.00	0.00	C
ATOM	1174	C	ASN	A	171	-8.198	-7.704	33.889	0.00	0.00	C
ATOM	1175	O	ASN	A	171	-7.631	-8.665	33.321	0.00	0.00	O
ATOM	1176	CB	ASN	A	171	-8.233	-5.177	34.418	0.00	0.00	C
ATOM	1177	CG	ASN	A	171	-9.273	-4.658	33.510	0.00	0.00	C
ATOM	1178	OD1	ASN	A	171	-9.005	-4.172	32.385	0.00	0.00	O
ATOM	1179	ND2	ASN	A	171	-10.545	-4.694	33.887	0.00	0.00	N
ATOM	1180	N	HIS	A	172	-9.399	-7.914	34.483	0.00	0.00	N
ATOM	1181	CA	HIS	A	172	-10.108	-9.162	34.396	0.00	0.00	C
ATOM	1182	C	HIS	A	172	-11.534	-8.981	34.055	0.00	0.00	C
ATOM	1183	O	HIS	A	172	-12.089	-9.796	33.289	0.00	0.00	O
ATOM	1184	CB	HIS	A	172	-10.004	-9.963	35.717	0.00	0.00	C
ATOM	1185	CG	HIS	A	172	-8.723	-10.676	35.856	0.00	0.00	C
ATOM	1186	ND1	HIS	A	172	-8.150	-11.487	34.954	0.00	0.00	N
ATOM	1187	CD2	HIS	A	172	-7.886	-10.668	36.966	0.00	0.00	C
ATOM	1188	CE1	HIS	A	172	-7.017	-11.970	35.480	0.00	0.00	C
ATOM	1189	NE2	HIS	A	172	-6.844	-11.477	36.718	0.00	0.00	N
ATOM	1190	N	GLU	A	173	-12.251	-8.002	34.626	0.00	0.00	N
ATOM	1191	CA	GLU	A	173	-13.672	-7.880	34.640	0.00	0.00	C
ATOM	1192	C	GLU	A	173	-14.198	-6.961	33.599	0.00	0.00	C
ATOM	1193	O	GLU	A	173	-14.920	-7.448	32.700	0.00	0.00	O
ATOM	1194	CB	GLU	A	173	-14.121	-7.473	36.079	0.00	0.00	C
ATOM	1195	CG	GLU	A	173	-13.042	-6.866	37.027	0.00	0.00	C
ATOM	1196	CD	GLU	A	173	-12.156	-5.872	36.406	0.00	0.00	C
ATOM	1197	OE1	GLU	A	173	-12.605	-4.808	35.937	0.00	0.00	O
ATOM	1198	OE2	GLU	A	173	-10.950	-6.144	36.202	0.00	0.00	O1-
ATOM	1199	N	ILE	A	174	-13.978	-5.628	33.639	0.00	0.00	N
ATOM	1200	CA	ILE	A	174	-14.578	-4.667	32.749	0.00	0.00	C
ATOM	1201	C	ILE	A	174	-13.573	-4.040	31.842	0.00	0.00	C

ATOM	1202	O	ILE	A	174	-12.541	-3.570	32.374	0.00	0.00	O
ATOM	1203	CB	ILE	A	174	-15.318	-3.596	33.615	0.00	0.00	C
ATOM	1204	CG1	ILE	A	174	-16.432	-4.195	34.524	0.00	0.00	C
ATOM	1205	CG2	ILE	A	174	-15.892	-2.417	32.786	0.00	0.00	C
ATOM	1206	CD1	ILE	A	174	-17.580	-4.925	33.793	0.00	0.00	C
ATOM	1207	N	PRO	A	175	-13.719	-3.855	30.496	0.00	0.00	N
ATOM	1208	CA	PRO	A	175	-14.862	-4.214	29.705	0.00	0.00	C
ATOM	1209	C	PRO	A	175	-14.723	-5.533	29.101	0.00	0.00	C
ATOM	1210	O	PRO	A	175	-14.569	-6.494	29.837	0.00	0.00	O
ATOM	1211	CB	PRO	A	175	-14.904	-3.033	28.713	0.00	0.00	C
ATOM	1212	CG	PRO	A	175	-13.422	-2.753	28.431	0.00	0.00	C
ATOM	1213	CD	PRO	A	175	-12.717	-3.182	29.727	0.00	0.00	C
ATOM	1214	N	HIS	A	176	-14.762	-5.715	27.792	0.00	0.00	N
ATOM	1215	CA	HIS	A	176	-14.617	-6.966	27.104	0.00	0.00	C
ATOM	1216	C	HIS	A	176	-15.639	-7.960	27.544	0.00	0.00	C
ATOM	1217	O	HIS	A	176	-16.845	-7.619	27.524	0.00	0.00	O
ATOM	1218	CB	HIS	A	176	-13.118	-7.377	27.188	0.00	0.00	C
ATOM	1219	CG	HIS	A	176	-12.827	-8.744	26.738	0.00	0.00	C
ATOM	1220	ND1	HIS	A	176	-12.361	-9.707	27.541	0.00	0.00	N
ATOM	1221	CD2	HIS	A	176	-12.999	-9.312	25.482	0.00	0.00	C
ATOM	1222	CE1	HIS	A	176	-12.246	-10.835	26.827	0.00	0.00	C
ATOM	1223	NE2	HIS	A	176	-12.641	-10.602	25.566	0.00	0.00	N
ATOM	1224	N	PHE	A	177	-15.298	-9.209	27.925	0.00	0.00	N
ATOM	1225	CA	PHE	A	177	-16.203	-10.203	28.420	0.00	0.00	C
ATOM	1226	C	PHE	A	177	-15.703	-10.698	29.719	0.00	0.00	C
ATOM	1227	O	PHE	A	177	-16.410	-10.594	30.747	0.00	0.00	O
ATOM	1228	CB	PHE	A	177	-16.331	-11.358	27.392	0.00	0.00	C
ATOM	1229	CG	PHE	A	177	-16.960	-10.939	26.121	0.00	0.00	C
ATOM	1230	CD1	PHE	A	177	-18.307	-10.537	26.086	0.00	0.00	C
ATOM	1231	CD2	PHE	A	177	-16.224	-10.948	24.924	0.00	0.00	C
ATOM	1232	CE1	PHE	A	177	-18.901	-10.140	24.882	0.00	0.00	C
ATOM	1233	CE2	PHE	A	177	-16.815	-10.549	23.719	0.00	0.00	C
ATOM	1234	CZ	PHE	A	177	-18.155	-10.144	23.697	0.00	0.00	C
ATOM	1235	N	PHE	A	178	-14.473	-11.245	29.767	0.00	0.00	N
ATOM	1236	CA	PHE	A	178	-13.771	-11.657	30.939	0.00	0.00	C
ATOM	1237	C	PHE	A	178	-12.379	-11.918	30.512	0.00	0.00	C
ATOM	1238	O	PHE	A	178	-12.148	-12.735	29.590	0.00	0.00	O
ATOM	1239	CB	PHE	A	178	-14.423	-12.870	31.659	0.00	0.00	C
ATOM	1240	CG	PHE	A	178	-14.542	-12.616	33.112	0.00	0.00	C
ATOM	1241	CD1	PHE	A	178	-13.406	-12.638	33.941	0.00	0.00	C
ATOM	1242	CD2	PHE	A	178	-15.792	-12.316	33.680	0.00	0.00	C
ATOM	1243	CE1	PHE	A	178	-13.518	-12.352	35.307	0.00	0.00	C
ATOM	1244	CE2	PHE	A	178	-15.904	-12.027	35.046	0.00	0.00	C
ATOM	1245	CZ	PHE	A	178	-14.766	-12.042	35.860	0.00	0.00	C
ATOM	1246	N	CYS	A	179	-11.374	-11.201	31.043	0.00	0.00	N
ATOM	1247	CA	CYS	A	179	-10.066	-11.098	30.477	0.00	0.00	C
ATOM	1248	C	CYS	A	179	-9.091	-12.039	31.070	0.00	0.00	C
ATOM	1249	O	CYS	A	179	-8.906	-12.094	32.309	0.00	0.00	O
ATOM	1250	CB	CYS	A	179	-9.556	-9.644	30.579	0.00	0.00	C
ATOM	1251	SG	CYS	A	179	-10.835	-8.447	30.140	0.00	0.00	S
ATOM	1252	N	ASP	A	180	-8.375	-12.783	30.205	0.00	0.00	N
ATOM	1253	CA	ASP	A	180	-7.265	-13.627	30.504	0.00	0.00	C
ATOM	1254	C	ASP	A	180	-5.991	-12.890	30.265	0.00	0.00	C
ATOM	1255	O	ASP	A	180	-5.991	-11.659	30.036	0.00	0.00	O
ATOM	1256	CB	ASP	A	180	-7.460	-14.886	29.610	0.00	0.00	C
ATOM	1257	CG	ASP	A	180	-6.264	-15.725	29.488	0.00	0.00	C
ATOM	1258	OD1	ASP	A	180	-5.711	-16.229	30.487	0.00	0.00	O
ATOM	1259	OD2	ASP	A	180	-5.660	-15.781	28.397	0.00	0.00	O1-
ATOM	1260	N	ILE	A	181	-4.828	-13.568	30.265	0.00	0.00	N
ATOM	1261	CA	ILE	A	181	-3.537	-13.025	29.982	0.00	0.00	C
ATOM	1262	C	ILE	A	181	-3.246	-12.981	28.526	0.00	0.00	C
ATOM	1263	O	ILE	A	181	-2.500	-12.067	28.103	0.00	0.00	O
ATOM	1264	CB	ILE	A	181	-2.450	-13.783	30.803	0.00	0.00	C
ATOM	1265	CG1	ILE	A	181	-1.113	-12.989	30.829	0.00	0.00	C
ATOM	1266	CG2	ILE	A	181	-2.233	-15.237	30.310	0.00	0.00	C
ATOM	1267	CD1	ILE	A	181	-0.125	-13.470	31.909	0.00	0.00	C
ATOM	1268	N	ASN	A	182	-3.756	-13.857	27.627	0.00	0.00	N
ATOM	1269	CA	ASN	A	182	-3.410	-13.827	26.230	0.00	0.00	C
ATOM	1270	C	ASN	A	182	-3.686	-12.507	25.590	0.00	0.00	C
ATOM	1271	O	ASN	A	182	-2.742	-12.006	24.927	0.00	0.00	O
ATOM	1272	CB	ASN	A	182	-4.045	-15.002	25.443	0.00	0.00	C
ATOM	1273	CG	ASN	A	182	-3.411	-16.289	25.759	0.00	0.00	C
ATOM	1274	OD1	ASN	A	182	-2.562	-16.792	24.995	0.00	0.00	O
ATOM	1275	ND2	ASN	A	182	-3.727	-16.960	26.865	0.00	0.00	N
ATOM	1276	N	PRO	A	183	-4.840	-11.789	25.732	0.00	0.00	N
ATOM	1277	CA	PRO	A	183	-4.995	-10.455	25.217	0.00	0.00	C
ATOM	1278	C	PRO	A	183	-4.136	-9.429	25.794	0.00	0.00	C

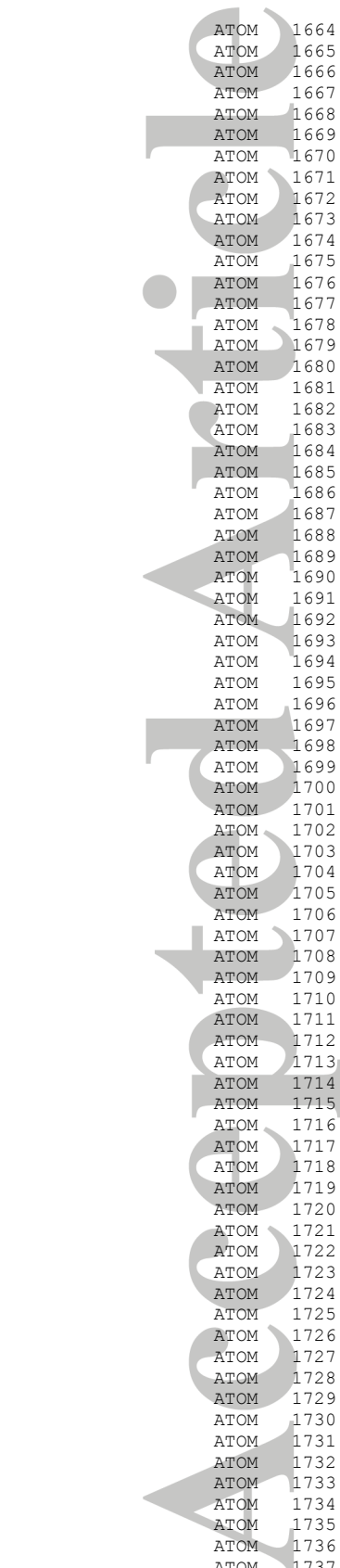
ATOM	1279	O	PRO	A	183	-4.138	-8.323	25.272	0.00	0.00	O
ATOM	1280	CB	PRO	A	183	-6.483	-10.108	25.455	0.00	0.00	C
ATOM	1281	CG	PRO	A	183	-7.147	-11.445	25.786	0.00	0.00	C
ATOM	1282	CD	PRO	A	183	-6.008	-12.256	26.407	0.00	0.00	C
ATOM	1283	N	LEU	A	184	-3.347	-9.654	26.828	0.00	0.00	N
ATOM	1284	CA	LEU	A	184	-2.454	-8.701	27.418	0.00	0.00	C
ATOM	1285	C	LEU	A	184	-1.101	-9.017	26.916	0.00	0.00	C
ATOM	1286	O	LEU	A	184	-0.373	-8.107	26.459	0.00	0.00	O
ATOM	1287	CB	LEU	A	184	-2.503	-8.807	28.966	0.00	0.00	C
ATOM	1288	CG	LEU	A	184	-3.646	-8.024	29.663	0.00	0.00	C
ATOM	1289	CD1	LEU	A	184	-5.056	-8.405	29.163	0.00	0.00	C
ATOM	1290	CD2	LEU	A	184	-3.559	-8.261	31.188	0.00	0.00	C
ATOM	1291	N	LEU	A	185	-0.693	-10.304	26.897	0.00	0.00	N
ATOM	1292	CA	LEU	A	185	0.514	-10.778	26.300	0.00	0.00	C
ATOM	1293	C	LEU	A	185	0.594	-10.402	24.867	0.00	0.00	C
ATOM	1294	O	LEU	A	185	1.583	-9.742	24.471	0.00	0.00	O
ATOM	1295	CB	LEU	A	185	0.567	-12.311	26.523	0.00	0.00	C
ATOM	1296	CG	LEU	A	185	1.862	-13.016	26.039	0.00	0.00	C
ATOM	1297	CD1	LEU	A	185	3.115	-12.540	26.809	0.00	0.00	C
ATOM	1298	CD2	LEU	A	185	1.708	-14.545	26.196	0.00	0.00	C
ATOM	1299	N	SER	A	186	-0.409	-10.683	24.004	0.00	0.00	N
ATOM	1300	CA	SER	A	186	-0.411	-10.313	22.613	0.00	0.00	C
ATOM	1301	C	SER	A	186	-0.111	-8.875	22.410	0.00	0.00	C
ATOM	1302	O	SER	A	186	0.723	-8.497	21.546	0.00	0.00	O
ATOM	1303	CB	SER	A	186	-1.785	-10.634	21.982	0.00	0.00	C
ATOM	1304	OG	SER	A	186	-2.161	-11.988	22.215	0.00	0.00	O
ATOM	1305	N	LEU	A	187	-0.716	-7.993	23.233	0.00	0.00	N
ATOM	1306	CA	LEU	A	187	-0.552	-6.580	23.213	0.00	0.00	C
ATOM	1307	C	LEU	A	187	0.814	-6.118	23.568	0.00	0.00	C
ATOM	1308	O	LEU	A	187	1.050	-4.893	23.430	0.00	0.00	O
ATOM	1309	CB	LEU	A	187	-1.639	-5.983	24.148	0.00	0.00	C
ATOM	1310	CG	LEU	A	187	-2.128	-4.558	23.770	0.00	0.00	C
ATOM	1311	CD1	LEU	A	187	-3.024	-4.571	22.510	0.00	0.00	C
ATOM	1312	CD2	LEU	A	187	-2.911	-3.944	24.951	0.00	0.00	C
ATOM	1313	N	SER	A	188	1.825	-6.956	23.926	0.00	0.00	N
ATOM	1314	CA	SER	A	188	3.209	-6.563	23.998	0.00	0.00	C
ATOM	1315	C	SER	A	188	3.791	-6.433	22.628	0.00	0.00	C
ATOM	1316	O	SER	A	188	4.896	-6.919	22.285	0.00	0.00	O
ATOM	1317	CB	SER	A	188	3.970	-7.560	24.904	0.00	0.00	C
ATOM	1318	OG	SER	A	188	5.344	-7.196	24.969	0.00	0.00	O
ATOM	1319	N	CYS	A	189	3.052	-5.730	21.750	0.00	0.00	N
ATOM	1320	CA	CYS	A	189	3.257	-5.499	20.358	0.00	0.00	C
ATOM	1321	C	CYS	A	189	3.608	-6.719	19.587	0.00	0.00	C
ATOM	1322	O	CYS	A	189	4.630	-6.706	18.860	0.00	0.00	O
ATOM	1323	CB	CYS	A	189	4.263	-4.342	20.150	0.00	0.00	C
ATOM	1324	SG	CYS	A	189	3.650	-2.748	20.739	0.00	0.00	S
ATOM	1325	N	THR	A	190	2.826	-7.825	19.599	0.00	0.00	N
ATOM	1326	CA	THR	A	190	3.022	-8.904	18.670	0.00	0.00	C
ATOM	1327	C	THR	A	190	2.587	-8.458	17.324	0.00	0.00	C
ATOM	1328	O	THR	A	190	1.366	-8.382	17.068	0.00	0.00	O
ATOM	1329	CB	THR	A	190	2.268	-10.181	19.127	0.00	0.00	C
ATOM	1330	OG1	THR	A	190	2.479	-10.408	20.515	0.00	0.00	O
ATOM	1331	CG2	THR	A	190	2.726	-11.441	18.371	0.00	0.00	C
ATOM	1332	N	ASP	A	191	3.496	-8.043	16.418	0.00	0.00	N
ATOM	1333	CA	ASP	A	191	3.287	-7.363	15.176	0.00	0.00	C
ATOM	1334	C	ASP	A	191	1.893	-7.218	14.641	0.00	0.00	C
ATOM	1335	O	ASP	A	191	1.403	-6.066	14.729	0.00	0.00	O
ATOM	1336	CB	ASP	A	191	4.339	-7.938	14.192	0.00	0.00	C
ATOM	1337	CG	ASP	A	191	5.705	-7.548	14.552	0.00	0.00	C
ATOM	1338	OD1	ASP	A	191	6.230	-7.856	15.646	0.00	0.00	O
ATOM	1339	OD2	ASP	A	191	6.374	-6.854	13.764	0.00	0.00	O1-
ATOM	1340	N	PRO	A	192	1.118	-8.185	14.069	0.00	0.00	N
ATOM	1341	CA	PRO	A	192	-0.232	-7.953	13.626	0.00	0.00	C
ATOM	1342	C	PRO	A	192	-1.283	-8.324	14.569	0.00	0.00	C
ATOM	1343	O	PRO	A	192	-2.448	-8.201	14.214	0.00	0.00	O
ATOM	1344	CB	PRO	A	192	-0.295	-8.885	12.399	0.00	0.00	C
ATOM	1345	CG	PRO	A	192	0.488	-10.115	12.869	0.00	0.00	C
ATOM	1346	CD	PRO	A	192	1.561	-9.512	13.789	0.00	0.00	C
ATOM	1347	N	PHE	A	193	-1.026	-8.833	15.757	0.00	0.00	N
ATOM	1348	CA	PHE	A	193	-1.963	-9.600	16.519	0.00	0.00	C
ATOM	1349	C	PHE	A	193	-2.538	-8.788	17.613	0.00	0.00	C
ATOM	1350	O	PHE	A	193	-1.834	-8.412	18.579	0.00	0.00	O
ATOM	1351	CB	PHE	A	193	-1.259	-10.896	17.005	0.00	0.00	C
ATOM	1352	CG	PHE	A	193	-2.196	-12.008	17.284	0.00	0.00	C
ATOM	1353	CD1	PHE	A	193	-2.201	-13.150	16.464	0.00	0.00	C
ATOM	1354	CD2	PHE	A	193	-3.087	-11.952	18.371	0.00	0.00	C
ATOM	1355	CE1	PHE	A	193	-3.085	-14.206	16.718	0.00	0.00	C

ATOM	1356	CE2	PHE	A	193	-3.977	-13.004	18.620	0.00	0.00	C
ATOM	1357	CZ	PHE	A	193	-3.979	-14.131	17.791	0.00	0.00	C
ATOM	1358	N	THR	A	194	-3.839	-8.444	17.536	0.00	0.00	N
ATOM	1359	CA	THR	A	194	-4.559	-7.703	18.528	0.00	0.00	C
ATOM	1360	C	THR	A	194	-5.764	-8.479	18.894	0.00	0.00	C
ATOM	1361	O	THR	A	194	-5.625	-9.485	19.625	0.00	0.00	O
ATOM	1362	CB	THR	A	194	-4.878	-6.264	18.030	0.00	0.00	C
ATOM	1363	OG1	THR	A	194	-5.660	-6.268	16.838	0.00	0.00	O
ATOM	1364	CG2	THR	A	194	-3.608	-5.439	17.750	0.00	0.00	C
ATOM	1365	N	ASN	A	195	-6.977	-8.149	18.406	0.00	0.00	N1+
ATOM	1366	CA	ASN	A	195	-8.175	-8.907	18.596	0.00	0.00	C
ATOM	1367	C	ASN	A	195	-8.636	-9.500	17.320	0.00	0.00	C
ATOM	1368	O	ASN	A	195	-8.342	-8.990	16.211	0.00	0.00	O
ATOM	1369	CB	ASN	A	195	-9.268	-8.075	19.312	0.00	0.00	C
ATOM	1370	CG	ASN	A	195	-9.700	-6.868	18.602	0.00	0.00	C
ATOM	1371	OD1	ASN	A	195	-10.273	-6.924	17.492	0.00	0.00	O
ATOM	1372	ND2	ASN	A	195	-9.536	-5.671	19.170	0.00	0.00	N
ATOM	1373	N	GLU	A	196	-9.389	-10.612	17.377	0.00	0.00	N
ATOM	1374	CA	GLU	A	196	-9.873	-11.393	16.292	0.00	0.00	C
ATOM	1375	C	GLU	A	196	-10.701	-10.616	15.339	0.00	0.00	C
ATOM	1376	O	GLU	A	196	-10.518	-10.748	14.102	0.00	0.00	O
ATOM	1377	CB	GLU	A	196	-10.592	-12.620	16.915	0.00	0.00	C
ATOM	1378	CG	GLU	A	196	-11.806	-12.337	17.848	0.00	0.00	C
ATOM	1379	CD	GLU	A	196	-11.539	-11.643	19.122	0.00	0.00	C
ATOM	1380	OE1	GLU	A	196	-10.420	-11.664	19.682	0.00	0.00	O
ATOM	1381	OE2	GLU	A	196	-12.450	-10.965	19.642	0.00	0.00	O1-
ATOM	1382	N	LEU	A	197	-11.590	-9.714	15.810	0.00	0.00	N
ATOM	1383	CA	LEU	A	197	-12.368	-8.831	14.997	0.00	0.00	C
ATOM	1384	C	LEU	A	197	-11.499	-7.992	14.136	0.00	0.00	C
ATOM	1385	O	LEU	A	197	-11.626	-8.076	12.889	0.00	0.00	O
ATOM	1386	CB	LEU	A	197	-13.287	-7.948	15.884	0.00	0.00	C
ATOM	1387	CG	LEU	A	197	-14.239	-8.713	16.845	0.00	0.00	C
ATOM	1388	CD1	LEU	A	197	-15.025	-7.705	17.712	0.00	0.00	C
ATOM	1389	CD2	LEU	A	197	-15.229	-9.633	16.096	0.00	0.00	C
ATOM	1390	N	VAL	A	198	-10.548	-7.196	14.683	0.00	0.00	N
ATOM	1391	CA	VAL	A	198	-9.595	-6.439	13.924	0.00	0.00	C
ATOM	1392	C	VAL	A	198	-8.835	-7.314	13.009	0.00	0.00	C
ATOM	1393	O	VAL	A	198	-8.854	-7.012	11.794	0.00	0.00	O
ATOM	1394	CB	VAL	A	198	-8.675	-5.617	14.877	0.00	0.00	C
ATOM	1395	CG1	VAL	A	198	-7.363	-5.115	14.226	0.00	0.00	C
ATOM	1396	CG2	VAL	A	198	-9.442	-4.392	15.421	0.00	0.00	C
ATOM	1397	N	ILE	A	199	-8.186	-8.419	13.447	0.00	0.00	N
ATOM	1398	CA	ILE	A	199	-7.436	-9.309	12.602	0.00	0.00	C
ATOM	1399	C	ILE	A	199	-8.213	-9.662	11.382	0.00	0.00	C
ATOM	1400	O	ILE	A	199	-7.741	-9.361	10.254	0.00	0.00	O
ATOM	1401	CB	ILE	A	199	-6.969	-10.551	13.431	0.00	0.00	C
ATOM	1402	CG1	ILE	A	199	-5.898	-10.155	14.491	0.00	0.00	C
ATOM	1403	CG2	ILE	A	199	-6.411	-11.692	12.544	0.00	0.00	C
ATOM	1404	CD1	ILE	A	199	-5.626	-11.252	15.543	0.00	0.00	C
ATOM	1405	N	PHE	A	200	-9.436	-10.237	11.478	0.00	0.00	N
ATOM	1406	CA	PHE	A	200	-10.231	-10.574	10.334	0.00	0.00	C
ATOM	1407	C	PHE	A	200	-10.590	-9.396	9.504	0.00	0.00	C
ATOM	1408	O	PHE	A	200	-10.319	-9.420	8.277	0.00	0.00	O
ATOM	1409	CB	PHE	A	200	-11.497	-11.351	10.778	0.00	0.00	C
ATOM	1410	CG	PHE	A	200	-12.348	-11.758	9.634	0.00	0.00	C
ATOM	1411	CD1	PHE	A	200	-11.861	-12.647	8.658	0.00	0.00	C
ATOM	1412	CD2	PHE	A	200	-13.649	-11.245	9.496	0.00	0.00	C
ATOM	1413	CE1	PHE	A	200	-12.647	-12.992	7.552	0.00	0.00	C
ATOM	1414	CE2	PHE	A	200	-14.439	-11.597	8.394	0.00	0.00	C
ATOM	1415	CZ	PHE	A	200	-13.937	-12.466	7.418	0.00	0.00	C
ATOM	1416	N	ILE	A	201	-11.193	-8.315	10.053	0.00	0.00	N
ATOM	1417	CA	ILE	A	201	-11.613	-7.166	9.301	0.00	0.00	C
ATOM	1418	C	ILE	A	201	-10.483	-6.589	8.535	0.00	0.00	C
ATOM	1419	O	ILE	A	201	-10.617	-6.386	7.303	0.00	0.00	O
ATOM	1420	CB	ILE	A	201	-12.294	-6.138	10.261	0.00	0.00	C
ATOM	1421	CG1	ILE	A	201	-13.674	-6.685	10.732	0.00	0.00	C
ATOM	1422	CG2	ILE	A	201	-12.466	-4.740	9.610	0.00	0.00	C
ATOM	1423	CD1	ILE	A	201	-14.318	-5.879	11.878	0.00	0.00	C
ATOM	1424	N	THR	A	202	-9.307	-6.321	9.141	0.00	0.00	N
ATOM	1425	CA	THR	A	202	-8.177	-5.786	8.451	0.00	0.00	C
ATOM	1426	C	THR	A	202	-7.656	-6.756	7.468	0.00	0.00	C
ATOM	1427	O	THR	A	202	-7.513	-6.339	6.301	0.00	0.00	O
ATOM	1428	CB	THR	A	202	-7.061	-5.293	9.403	0.00	0.00	C
ATOM	1429	OG1	THR	A	202	-6.555	-6.365	10.187	0.00	0.00	O
ATOM	1430	CG2	THR	A	202	-7.555	-4.173	10.340	0.00	0.00	C
ATOM	1431	N	GLY	A	203	-7.418	-8.068	7.717	0.00	0.00	N
ATOM	1432	CA	GLY	A	203	-7.033	-8.982	6.672	0.00	0.00	C

ATOM	1433	C	GLY	A	203	-7.918	-8.940	5.479	0.00	0.00	C
ATOM	1434	O	GLY	A	203	-7.447	-8.824	4.317	0.00	0.00	O
ATOM	1435	N	GLY	A	204	-9.256	-8.960	5.662	0.00	0.00	N
ATOM	1436	CA	GLY	A	204	-10.210	-8.792	4.609	0.00	0.00	C
ATOM	1437	C	GLY	A	204	-10.087	-7.530	3.844	0.00	0.00	C
ATOM	1438	O	GLY	A	204	-9.945	-7.585	2.595	0.00	0.00	O
ATOM	1439	N	LEU	A	205	-10.170	-6.347	4.497	0.00	0.00	N
ATOM	1440	CA	LEU	A	205	-10.150	-5.058	3.864	0.00	0.00	C
ATOM	1441	C	LEU	A	205	-8.826	-4.558	3.416	0.00	0.00	C
ATOM	1442	O	LEU	A	205	-8.816	-3.638	2.558	0.00	0.00	O
ATOM	1443	CB	LEU	A	205	-10.789	-4.008	4.811	0.00	0.00	C
ATOM	1444	CG	LEU	A	205	-12.308	-4.181	5.079	0.00	0.00	C
ATOM	1445	CD1	LEU	A	205	-12.777	-3.087	6.064	0.00	0.00	C
ATOM	1446	CD2	LEU	A	205	-13.154	-4.101	3.786	0.00	0.00	C
ATOM	1447	N	THR	A	206	-7.659	-5.016	3.924	0.00	0.00	N
ATOM	1448	CA	THR	A	206	-6.364	-4.615	3.466	0.00	0.00	C
ATOM	1449	C	THR	A	206	-5.674	-5.640	2.647	0.00	0.00	C
ATOM	1450	O	THR	A	206	-4.679	-5.272	1.981	0.00	0.00	O
ATOM	1451	CB	THR	A	206	-5.427	-4.123	4.604	0.00	0.00	C
ATOM	1452	OG1	THR	A	206	-5.049	-5.194	5.461	0.00	0.00	O
ATOM	1453	CG2	THR	A	206	-6.048	-3.007	5.462	0.00	0.00	C
ATOM	1454	N	GLY	A	207	-6.049	-6.935	2.552	0.00	0.00	N
ATOM	1455	CA	GLY	A	207	-5.477	-7.830	1.592	0.00	0.00	C
ATOM	1456	C	GLY	A	207	-6.490	-8.468	0.740	0.00	0.00	C
ATOM	1457	O	GLY	A	207	-6.462	-8.322	-0.507	0.00	0.00	O
ATOM	1458	N	LEU	A	208	-7.415	-9.260	1.318	0.00	0.00	N
ATOM	1459	CA	LEU	A	208	-8.217	-10.180	0.567	0.00	0.00	C
ATOM	1460	C	LEU	A	208	-9.042	-9.555	-0.499	0.00	0.00	C
ATOM	1461	O	LEU	A	208	-8.958	-9.993	-1.674	0.00	0.00	O
ATOM	1462	CB	LEU	A	208	-9.070	-11.030	1.539	0.00	0.00	C
ATOM	1463	CG	LEU	A	208	-9.505	-12.400	0.950	0.00	0.00	C
ATOM	1464	CD1	LEU	A	208	-8.327	-13.399	0.875	0.00	0.00	C
ATOM	1465	CD2	LEU	A	208	-10.640	-13.008	1.800	0.00	0.00	C
ATOM	1466	N	ILE	A	209	-9.866	-8.519	-0.224	0.00	0.00	N
ATOM	1467	CA	ILE	A	209	-10.722	-7.917	-1.211	0.00	0.00	C
ATOM	1468	C	ILE	A	209	-9.994	-7.444	-2.424	0.00	0.00	C
ATOM	1469	O	ILE	A	209	-10.349	-7.829	-3.568	0.00	0.00	O
ATOM	1470	CB	ILE	A	209	-11.610	-6.836	-0.523	0.00	0.00	C
ATOM	1471	CG1	ILE	A	209	-12.848	-6.490	-1.399	0.00	0.00	C
ATOM	1472	CG2	ILE	A	209	-10.836	-5.556	-0.113	0.00	0.00	C
ATOM	1473	CD1	ILE	A	209	-14.003	-5.862	-0.593	0.00	0.00	C
ATOM	1474	N	CYS	A	210	-8.912	-6.646	-2.292	0.00	0.00	N
ATOM	1475	CA	CYS	A	210	-8.109	-6.173	-3.377	0.00	0.00	C
ATOM	1476	C	CYS	A	210	-7.416	-7.247	-4.077	0.00	0.00	C
ATOM	1477	O	CYS	A	210	-7.455	-7.247	-5.304	0.00	0.00	O
ATOM	1478	CB	CYS	A	210	-7.177	-5.039	-2.891	0.00	0.00	C
ATOM	1479	SG	CYS	A	210	-6.067	-5.510	-1.550	0.00	0.00	S
ATOM	1480	N	VAL	A	211	-6.831	-8.244	-3.431	0.00	0.00	N
ATOM	1481	CA	VAL	A	211	-6.293	-9.422	-4.062	0.00	0.00	C
ATOM	1482	C	VAL	A	211	-7.282	-10.066	-4.967	0.00	0.00	C
ATOM	1483	O	VAL	A	211	-6.981	-10.231	-6.178	0.00	0.00	O
ATOM	1484	CB	VAL	A	211	-5.762	-10.386	-2.953	0.00	0.00	C
ATOM	1485	CG1	VAL	A	211	-5.558	-11.847	-3.418	0.00	0.00	C
ATOM	1486	CG2	VAL	A	211	-4.424	-9.879	-2.367	0.00	0.00	C
ATOM	1487	N	LEU	A	212	-8.503	-10.430	-4.511	0.00	0.00	N
ATOM	1488	CA	LEU	A	212	-9.515	-11.010	-5.350	0.00	0.00	C
ATOM	1489	C	LEU	A	212	-9.830	-10.155	-6.524	0.00	0.00	C
ATOM	1490	O	LEU	A	212	-9.759	-10.643	-7.682	0.00	0.00	O
ATOM	1491	CB	LEU	A	212	-10.803	-11.305	-4.535	0.00	0.00	C
ATOM	1492	CG	LEU	A	212	-10.648	-12.343	-3.390	0.00	0.00	C
ATOM	1493	CD1	LEU	A	212	-11.968	-12.435	-2.592	0.00	0.00	C
ATOM	1494	CD2	LEU	A	212	-10.251	-13.747	-3.895	0.00	0.00	C
ATOM	1495	N	CYS	A	213	-10.138	-8.848	-6.352	0.00	0.00	N
ATOM	1496	CA	CYS	A	213	-10.397	-7.946	-7.439	0.00	0.00	C
ATOM	1497	C	CYS	A	213	-9.308	-7.936	-8.450	0.00	0.00	C
ATOM	1498	O	CYS	A	213	-9.582	-8.136	-9.663	0.00	0.00	O
ATOM	1499	CB	CYS	A	213	-10.635	-6.516	-6.903	0.00	0.00	C
ATOM	1500	SG	CYS	A	213	-12.040	-6.447	-5.773	0.00	0.00	S
ATOM	1501	N	LEU	A	214	-8.025	-7.759	-8.052	0.00	0.00	N
ATOM	1502	CA	LEU	A	214	-6.903	-7.794	-8.939	0.00	0.00	C
ATOM	1503	C	LEU	A	214	-6.862	-9.059	-9.710	0.00	0.00	C
ATOM	1504	O	LEU	A	214	-6.896	-8.981	-10.962	0.00	0.00	O
ATOM	1505	CB	LEU	A	214	-5.604	-7.532	-8.129	0.00	0.00	C
ATOM	1506	CG	LEU	A	214	-4.289	-7.302	-8.930	0.00	0.00	C
ATOM	1507	CD1	LEU	A	214	-3.680	-8.598	-9.511	0.00	0.00	C
ATOM	1508	CD2	LEU	A	214	-4.436	-6.235	-10.037	0.00	0.00	C
ATOM	1509	N	ILE	A	215	-6.854	-10.261	-9.086	0.00	0.00	N

ATOM	1510	CA	ILE	A	215	-6.815	-11.535	-9.760	0.00	0.00	C
ATOM	1511	C	ILE	A	215	-7.848	-11.638	-10.825	0.00	0.00	C
ATOM	1512	O	ILE	A	215	-7.515	-11.967	-11.995	0.00	0.00	O
ATOM	1513	CB	ILE	A	215	-6.918	-12.681	-8.701	0.00	0.00	C
ATOM	1514	CG1	ILE	A	215	-5.615	-12.752	-7.851	0.00	0.00	C
ATOM	1515	CG2	ILE	A	215	-7.210	-14.065	-9.342	0.00	0.00	C
ATOM	1516	CD1	ILE	A	215	-5.710	-13.684	-6.626	0.00	0.00	C
ATOM	1517	N	ILE	A	216	-9.140	-11.355	-10.546	0.00	0.00	N
ATOM	1518	CA	ILE	A	216	-10.192	-11.411	-11.525	0.00	0.00	C
ATOM	1519	C	ILE	A	216	-9.913	-10.500	-12.674	0.00	0.00	C
ATOM	1520	O	ILE	A	216	-9.924	-10.953	-13.849	0.00	0.00	O
ATOM	1521	CB	ILE	A	216	-11.563	-11.141	-10.831	0.00	0.00	C
ATOM	1522	CG1	ILE	A	216	-11.842	-12.190	-9.712	0.00	0.00	C
ATOM	1523	CG2	ILE	A	216	-12.728	-11.154	-11.856	0.00	0.00	C
ATOM	1524	CD1	ILE	A	216	-12.977	-11.789	-8.748	0.00	0.00	C
ATOM	1525	N	SER	A	217	-9.599	-9.200	-12.468	0.00	0.00	N
ATOM	1526	CA	SER	A	217	-9.274	-8.286	-13.533	0.00	0.00	C
ATOM	1527	C	SER	A	217	-8.114	-8.712	-14.364	0.00	0.00	C
ATOM	1528	O	SER	A	217	-8.194	-8.705	-15.618	0.00	0.00	O
ATOM	1529	CB	SER	A	217	-9.060	-6.876	-12.943	0.00	0.00	C
ATOM	1530	OG	SER	A	217	-7.778	-6.707	-12.340	0.00	0.00	O
ATOM	1531	N	TYR	A	218	-6.994	-9.166	-13.761	0.00	0.00	N
ATOM	1532	CA	TYR	A	218	-5.850	-9.722	-14.419	0.00	0.00	C
ATOM	1533	C	TYR	A	218	-6.208	-10.847	-15.319	0.00	0.00	C
ATOM	1534	O	TYR	A	218	-5.826	-10.848	-16.518	0.00	0.00	O
ATOM	1535	CB	TYR	A	218	-4.852	-10.119	-13.297	0.00	0.00	C
ATOM	1536	CG	TYR	A	218	-3.663	-10.865	-13.763	0.00	0.00	C
ATOM	1537	CD1	TYR	A	218	-3.730	-12.252	-13.977	0.00	0.00	C
ATOM	1538	CD2	TYR	A	218	-2.443	-10.206	-13.983	0.00	0.00	C
ATOM	1539	CE1	TYR	A	218	-2.614	-12.957	-14.444	0.00	0.00	C
ATOM	1540	CE2	TYR	A	218	-1.331	-10.905	-14.463	0.00	0.00	C
ATOM	1541	CZ	TYR	A	218	-1.413	-12.282	-14.694	0.00	0.00	C
ATOM	1542	OH	TYR	A	218	-0.337	-12.955	-15.157	0.00	0.00	O
ATOM	1543	N	THR	A	219	-6.964	-11.861	-14.848	0.00	0.00	N
ATOM	1544	CA	THR	A	219	-7.414	-12.960	-15.653	0.00	0.00	C
ATOM	1545	C	THR	A	219	-8.167	-12.503	-16.851	0.00	0.00	C
ATOM	1546	O	THR	A	219	-7.858	-12.936	-17.993	0.00	0.00	O
ATOM	1547	CB	THR	A	219	-8.246	-13.933	-14.777	0.00	0.00	C
ATOM	1548	OG1	THR	A	219	-7.537	-14.258	-13.584	0.00	0.00	O
ATOM	1549	CG2	THR	A	219	-8.520	-15.269	-15.492	0.00	0.00	C
ATOM	1550	N	ASN	A	220	-9.142	-11.572	-16.725	0.00	0.00	N
ATOM	1551	CA	ASN	A	220	-9.811	-10.984	-17.852	0.00	0.00	C
ATOM	1552	C	ASN	A	220	-8.866	-10.339	-18.808	0.00	0.00	C
ATOM	1553	O	ASN	A	220	-8.908	-10.686	-20.014	0.00	0.00	O
ATOM	1554	CB	ASN	A	220	-10.902	-10.002	-17.358	0.00	0.00	C
ATOM	1555	CG	ASN	A	220	-11.879	-9.618	-18.391	0.00	0.00	C
ATOM	1556	OD1	ASN	A	220	-11.859	-10.081	-19.551	0.00	0.00	O
ATOM	1557	ND2	ASN	A	220	-12.852	-8.750	-18.111	0.00	0.00	N
ATOM	1558	N	VAL	A	221	-7.933	-9.447	-18.395	0.00	0.00	N
ATOM	1559	CA	VAL	A	221	-6.918	-8.879	-19.252	0.00	0.00	C
ATOM	1560	C	VAL	A	221	-6.188	-9.918	-20.024	0.00	0.00	C
ATOM	1561	O	VAL	A	221	-6.056	-9.768	-21.262	0.00	0.00	O
ATOM	1562	CB	VAL	A	221	-5.942	-7.975	-18.435	0.00	0.00	C
ATOM	1563	CG1	VAL	A	221	-4.605	-7.674	-19.163	0.00	0.00	C
ATOM	1564	CG2	VAL	A	221	-6.606	-6.626	-18.083	0.00	0.00	C
ATOM	1565	N	PHE	A	222	-5.685	-11.019	-19.425	0.00	0.00	N
ATOM	1566	CA	PHE	A	222	-5.081	-12.096	-20.162	0.00	0.00	C
ATOM	1567	C	PHE	A	222	-5.975	-12.658	-21.206	0.00	0.00	C
ATOM	1568	O	PHE	A	222	-5.558	-12.745	-22.388	0.00	0.00	O
ATOM	1569	CB	PHE	A	222	-4.575	-13.201	-19.199	0.00	0.00	C
ATOM	1570	CG	PHE	A	222	-3.126	-13.051	-18.953	0.00	0.00	C
ATOM	1571	CD1	PHE	A	222	-2.641	-11.987	-18.173	0.00	0.00	C
ATOM	1572	CD2	PHE	A	222	-2.213	-13.952	-19.527	0.00	0.00	C
ATOM	1573	CE1	PHE	A	222	-1.264	-11.820	-17.985	0.00	0.00	C
ATOM	1574	CE2	PHE	A	222	-0.836	-13.792	-19.327	0.00	0.00	C
ATOM	1575	CZ	PHE	A	222	-0.362	-12.729	-18.551	0.00	0.00	C
ATOM	1576	N	SER	A	223	-7.240	-13.030	-20.911	0.00	0.00	N
ATOM	1577	CA	SER	A	223	-8.172	-13.472	-21.914	0.00	0.00	C
ATOM	1578	C	SER	A	223	-8.343	-12.497	-23.025	0.00	0.00	C
ATOM	1579	O	SER	A	223	-8.415	-12.890	-24.215	0.00	0.00	O
ATOM	1580	CB	SER	A	223	-9.536	-13.818	-21.273	0.00	0.00	C
ATOM	1581	OG	SER	A	223	-10.412	-12.693	-21.216	0.00	0.00	O
ATOM	1582	N	THR	A	224	-8.473	-11.177	-22.767	0.00	0.00	N
ATOM	1583	CA	THR	A	224	-8.512	-10.153	-23.775	0.00	0.00	C
ATOM	1584	C	THR	A	224	-7.279	-10.155	-24.594	0.00	0.00	C
ATOM	1585	O	THR	A	224	-7.405	-10.303	-25.829	0.00	0.00	O
ATOM	1586	CB	THR	A	224	-8.794	-8.768	-23.142	0.00	0.00	C

ATOM	1587	OG1	THR	A	224	-10.017	-8.828	-22.416	0.00	0.00	O
ATOM	1588	CG2	THR	A	224	-8.943	-7.637	-24.178	0.00	0.00	C
ATOM	1589	N	ILE	A	225	-6.047	-10.078	-24.045	0.00	0.00	N
ATOM	1590	CA	ILE	A	225	-4.821	-10.175	-24.794	0.00	0.00	C
ATOM	1591	C	ILE	A	225	-4.830	-11.355	-25.691	0.00	0.00	C
ATOM	1592	O	ILE	A	225	-4.568	-11.181	-26.903	0.00	0.00	O
ATOM	1593	CB	ILE	A	225	-3.595	-10.158	-23.826	0.00	0.00	C
ATOM	1594	CG1	ILE	A	225	-3.294	-8.723	-23.304	0.00	0.00	C
ATOM	1595	CG2	ILE	A	225	-2.310	-10.811	-24.403	0.00	0.00	C
ATOM	1596	CD1	ILE	A	225	-2.662	-7.758	-24.333	0.00	0.00	C
ATOM	1597	N	LEU	A	226	-5.155	-12.586	-25.239	0.00	0.00	N
ATOM	1598	CA	LEU	A	226	-5.259	-13.726	-26.105	0.00	0.00	C
ATOM	1599	C	LEU	A	226	-6.244	-13.533	-27.203	0.00	0.00	C
ATOM	1600	O	LEU	A	226	-5.880	-13.783	-28.375	0.00	0.00	O
ATOM	1601	CB	LEU	A	226	-5.578	-15.006	-25.295	0.00	0.00	C
ATOM	1602	CG	LEU	A	226	-4.497	-15.403	-24.252	0.00	0.00	C
ATOM	1603	CD1	LEU	A	226	-5.003	-16.591	-23.407	0.00	0.00	C
ATOM	1604	CD2	LEU	A	226	-3.142	-15.769	-24.900	0.00	0.00	C
ATOM	1605	N	LYS	A	227	-7.500	-13.086	-26.975	0.00	0.00	N
ATOM	1606	CA	LYS	A	227	-8.450	-12.836	-28.027	0.00	0.00	C
ATOM	1607	C	LYS	A	227	-8.084	-11.780	-29.012	0.00	0.00	C
ATOM	1608	O	LYS	A	227	-8.692	-11.775	-30.107	0.00	0.00	O
ATOM	1609	CB	LYS	A	227	-9.825	-12.486	-27.407	0.00	0.00	C
ATOM	1610	CG	LYS	A	227	-10.478	-13.669	-26.655	0.00	0.00	C
ATOM	1611	CD	LYS	A	227	-11.891	-13.334	-26.116	0.00	0.00	C
ATOM	1612	CE	LYS	A	227	-11.970	-12.129	-25.156	0.00	0.00	C
ATOM	1613	NZ	LYS	A	227	-11.214	-12.360	-23.921	0.00	0.00	N1+
ATOM	1614	N	ILE	A	228	-7.154	-10.830	-28.773	0.00	0.00	N1+
ATOM	1615	CA	ILE	A	228	-6.711	-9.862	-29.740	0.00	0.00	C
ATOM	1616	C	ILE	A	228	-5.222	-9.907	-29.780	0.00	0.00	C
ATOM	1617	O	ILE	A	228	-4.586	-9.094	-29.069	0.00	0.00	O
ATOM	1618	CB	ILE	A	228	-7.384	-8.470	-29.502	0.00	0.00	C
ATOM	1619	CG1	ILE	A	228	-6.934	-7.424	-30.561	0.00	0.00	C
ATOM	1620	CG2	ILE	A	228	-7.232	-7.910	-28.065	0.00	0.00	C
ATOM	1621	CD1	ILE	A	228	-8.006	-6.348	-30.833	0.00	0.00	C
ATOM	1622	N	PRO	A	229	-4.527	-10.841	-30.498	0.00	0.00	N
ATOM	1623	CA	PRO	A	229	-3.118	-11.070	-30.342	0.00	0.00	C
ATOM	1624	C	PRO	A	229	-2.245	-9.911	-30.365	0.00	0.00	C
ATOM	1625	O	PRO	A	229	-1.953	-9.336	-31.404	0.00	0.00	O
ATOM	1626	CB	PRO	A	229	-2.755	-12.110	-31.422	0.00	0.00	C
ATOM	1627	CG	PRO	A	229	-4.075	-12.841	-31.664	0.00	0.00	C
ATOM	1628	CD	PRO	A	229	-5.134	-11.763	-31.407	0.00	0.00	C
ATOM	1629	N	SER	A	230	-1.768	-9.503	-29.209	0.00	0.00	N
ATOM	1630	CA	SER	A	230	-0.809	-8.468	-28.999	0.00	0.00	C
ATOM	1631	C	SER	A	230	0.365	-9.016	-28.285	0.00	0.00	C
ATOM	1632	O	SER	A	230	0.308	-10.118	-27.690	0.00	0.00	O
ATOM	1633	CB	SER	A	230	-1.497	-7.323	-28.221	0.00	0.00	C
ATOM	1634	OG	SER	A	230	-0.574	-6.421	-27.612	0.00	0.00	O
ATOM	1635	N	ALA	A	231	1.515	-8.316	-28.292	0.00	0.00	N
ATOM	1636	CA	ALA	A	231	2.719	-8.697	-27.629	0.00	0.00	C
ATOM	1637	C	ALA	A	231	2.995	-7.639	-26.631	0.00	0.00	C
ATOM	1638	O	ALA	A	231	2.227	-7.526	-25.650	0.00	0.00	O
ATOM	1639	CB	ALA	A	231	3.794	-8.886	-28.723	0.00	0.00	C
ATOM	1640	N	GLN	A	232	3.984	-6.742	-26.840	0.00	0.00	N
ATOM	1641	CA	GLN	A	232	4.106	-5.450	-26.228	0.00	0.00	C
ATOM	1642	C	GLN	A	232	4.385	-5.405	-24.792	0.00	0.00	C
ATOM	1643	O	GLN	A	232	3.890	-6.175	-23.983	0.00	0.00	O
ATOM	1644	CB	GLN	A	232	2.918	-4.563	-26.702	0.00	0.00	C
ATOM	1645	CG	GLN	A	232	2.928	-4.352	-28.248	0.00	0.00	C
ATOM	1646	CD	GLN	A	232	1.645	-4.639	-28.902	0.00	0.00	C
ATOM	1647	OE1	GLN	A	232	1.427	-5.756	-29.418	0.00	0.00	O
ATOM	1648	NE2	GLN	A	232	0.674	-3.728	-28.975	0.00	0.00	N
ATOM	1649	N	GLY	A	233	5.262	-4.516	-24.366	0.00	0.00	N1+
ATOM	1650	CA	GLY	A	233	5.880	-4.470	-23.073	0.00	0.00	C
ATOM	1651	C	GLY	A	233	5.032	-4.356	-21.872	0.00	0.00	C
ATOM	1652	O	GLY	A	233	5.335	-5.028	-20.861	0.00	0.00	O
ATOM	1653	N	LYS	A	234	3.988	-3.506	-21.826	0.00	0.00	N
ATOM	1654	CA	LYS	A	234	3.235	-3.171	-20.648	0.00	0.00	C
ATOM	1655	C	LYS	A	234	2.732	-4.355	-19.893	0.00	0.00	C
ATOM	1656	O	LYS	A	234	2.716	-4.356	-18.637	0.00	0.00	O
ATOM	1657	CB	LYS	A	234	2.090	-2.211	-21.074	0.00	0.00	C
ATOM	1658	CG	LYS	A	234	2.573	-0.947	-21.846	0.00	0.00	C
ATOM	1659	CD	LYS	A	234	2.457	0.376	-21.051	0.00	0.00	C
ATOM	1660	CE	LYS	A	234	1.087	1.063	-21.239	0.00	0.00	C
ATOM	1661	NZ	LYS	A	234	0.966	2.233	-20.373	0.00	0.00	N1+
ATOM	1662	N	ARG	A	235	2.379	-5.480	-20.551	0.00	0.00	N
ATOM	1663	CA	ARG	A	235	1.918	-6.671	-19.908	0.00	0.00	C



ATOM	1664	C	ARG	A	235	2.989	-7.442	-19.212	0.00	0.00	C
ATOM	1665	O	ARG	A	235	2.668	-8.369	-18.428	0.00	0.00	O
ATOM	1666	CB	ARG	A	235	1.178	-7.504	-20.982	0.00	0.00	C
ATOM	1667	CG	ARG	A	235	0.191	-8.548	-20.393	0.00	0.00	C
ATOM	1668	CD	ARG	A	235	0.498	-9.976	-20.872	0.00	0.00	C
ATOM	1669	NE	ARG	A	235	1.706	-10.399	-20.255	0.00	0.00	N
ATOM	1670	CZ	ARG	A	235	2.402	-11.473	-20.620	0.00	0.00	C
ATOM	1671	NH1	ARG	A	235	2.139	-12.177	-21.712	0.00	0.00	N
ATOM	1672	NH2	ARG	A	235	3.395	-11.850	-19.837	0.00	0.00	N1+
ATOM	1673	N	LYS	A	236	4.301	-7.145	-19.369	0.00	0.00	N
ATOM	1674	CA	LYS	A	236	5.365	-7.720	-18.603	0.00	0.00	C
ATOM	1675	C	LYS	A	236	5.430	-7.022	-17.301	0.00	0.00	C
ATOM	1676	O	LYS	A	236	5.535	-7.697	-16.251	0.00	0.00	O
ATOM	1677	CB	LYS	A	236	6.708	-7.578	-19.363	0.00	0.00	C
ATOM	1678	CG	LYS	A	236	7.898	-8.219	-18.603	0.00	0.00	C
ATOM	1679	CD	LYS	A	236	9.227	-7.476	-18.870	0.00	0.00	C
ATOM	1680	CE	LYS	A	236	10.289	-7.829	-17.812	0.00	0.00	C
ATOM	1681	NZ	LYS	A	236	11.433	-6.921	-17.948	0.00	0.00	N1+
ATOM	1682	N	ALA	A	237	5.348	-5.676	-17.252	0.00	0.00	N
ATOM	1683	CA	ALA	A	237	5.227	-4.928	-16.042	0.00	0.00	C
ATOM	1684	C	ALA	A	237	4.042	-5.399	-15.285	0.00	0.00	C
ATOM	1685	O	ALA	A	237	4.181	-5.764	-14.094	0.00	0.00	O
ATOM	1686	CB	ALA	A	237	5.158	-3.427	-16.393	0.00	0.00	C
ATOM	1687	N	PHE	A	238	2.852	-5.530	-15.913	0.00	0.00	N
ATOM	1688	CA	PHE	A	238	1.701	-6.106	-15.285	0.00	0.00	C
ATOM	1689	C	PHE	A	238	1.918	-7.491	-14.768	0.00	0.00	C
ATOM	1690	O	PHE	A	238	1.654	-7.737	-13.565	0.00	0.00	O
ATOM	1691	CB	PHE	A	238	0.495	-5.944	-16.241	0.00	0.00	C
ATOM	1692	CG	PHE	A	238	-0.817	-6.251	-15.631	0.00	0.00	C
ATOM	1693	CD1	PHE	A	238	-1.176	-5.728	-14.377	0.00	0.00	C
ATOM	1694	CD2	PHE	A	238	-1.741	-7.059	-16.316	0.00	0.00	C
ATOM	1695	CE1	PHE	A	238	-2.391	-6.070	-13.781	0.00	0.00	C
ATOM	1696	CE2	PHE	A	238	-2.986	-7.350	-15.747	0.00	0.00	C
ATOM	1697	CZ	PHE	A	238	-3.308	-6.864	-14.475	0.00	0.00	C
ATOM	1698	N	SER	A	239	2.460	-8.484	-15.514	0.00	0.00	N
ATOM	1699	CA	SER	A	239	2.853	-9.749	-14.946	0.00	0.00	C
ATOM	1700	C	SER	A	239	3.785	-9.637	-13.785	0.00	0.00	C
ATOM	1701	O	SER	A	239	3.556	-10.290	-12.742	0.00	0.00	O
ATOM	1702	CB	SER	A	239	3.470	-10.663	-16.028	0.00	0.00	C
ATOM	1703	OG	SER	A	239	2.566	-10.903	-17.106	0.00	0.00	O
ATOM	1704	N	THR	A	240	4.875	-8.838	-13.813	0.00	0.00	N
ATOM	1705	CA	THR	A	240	5.764	-8.607	-12.700	0.00	0.00	C
ATOM	1706	C	THR	A	240	5.031	-8.156	-11.491	0.00	0.00	C
ATOM	1707	O	THR	A	240	5.177	-8.753	-10.396	0.00	0.00	O
ATOM	1708	CB	THR	A	240	6.855	-7.564	-13.081	0.00	0.00	C
ATOM	1709	OG1	THR	A	240	7.496	-7.929	-14.303	0.00	0.00	O
ATOM	1710	CG2	THR	A	240	7.951	-7.414	-12.007	0.00	0.00	C
ATOM	1711	N	CYS	A	241	4.183	-7.112	-11.587	0.00	0.00	N
ATOM	1712	CA	CYS	A	241	3.393	-6.627	-10.500	0.00	0.00	C
ATOM	1713	C	CYS	A	241	2.469	-7.659	-9.945	0.00	0.00	C
ATOM	1714	O	CYS	A	241	2.466	-7.880	-8.710	0.00	0.00	O
ATOM	1715	CB	CYS	A	241	2.751	-5.294	-10.950	0.00	0.00	C
ATOM	1716	SG	CYS	A	241	1.158	-5.436	-11.780	0.00	0.00	S
ATOM	1717	N	SER	A	242	1.701	-8.437	-10.746	0.00	0.00	N
ATOM	1718	CA	SER	A	242	0.928	-9.548	-10.246	0.00	0.00	C
ATOM	1719	C	SER	A	242	1.755	-10.577	-9.557	0.00	0.00	C
ATOM	1720	O	SER	A	242	1.359	-11.076	-8.477	0.00	0.00	O
ATOM	1721	CB	SER	A	242	0.122	-10.218	-11.379	0.00	0.00	C
ATOM	1722	OG	SER	A	242	0.987	-10.955	-12.236	0.00	0.00	O
ATOM	1723	N	SER	A	243	2.932	-10.986	-10.091	0.00	0.00	N
ATOM	1724	CA	SER	A	243	3.861	-11.860	-9.426	0.00	0.00	C
ATOM	1725	C	SER	A	243	4.216	-11.385	-8.064	0.00	0.00	C
ATOM	1726	O	SER	A	243	4.070	-12.175	-7.102	0.00	0.00	O
ATOM	1727	CB	SER	A	243	5.149	-12.053	-10.259	0.00	0.00	C
ATOM	1728	OG	SER	A	243	4.860	-12.443	-11.600	0.00	0.00	O
ATOM	1729	N	HIS	A	244	4.643	-10.116	-7.859	0.00	0.00	N
ATOM	1730	CA	HIS	A	244	4.894	-9.553	-6.555	0.00	0.00	C
ATOM	1731	C	HIS	A	244	3.773	-9.810	-5.607	0.00	0.00	C
ATOM	1732	O	HIS	A	244	4.005	-10.443	-4.548	0.00	0.00	O
ATOM	1733	CB	HIS	A	244	5.218	-8.095	-6.689	1.00	0.00	C
ATOM	1734	CG	HIS	A	244	5.728	-7.400	-5.448	1.00	0.00	C
ATOM	1735	ND1	HIS	A	244	4.912	-6.905	-4.513	1.00	0.00	N1+
ATOM	1736	CD2	HIS	A	244	7.006	-7.133	-5.020	1.00	0.00	C
ATOM	1737	CE1	HIS	A	244	5.652	-6.350	-3.540	1.00	0.00	C
ATOM	1738	NE2	HIS	A	244	6.953	-6.461	-3.805	1.00	0.00	N
ATOM	1739	N	LEU	A	245	2.508	-9.457	-5.929	0.00	0.00	N
ATOM	1740	CA	LEU	A	245	1.361	-9.740	-5.106	0.00	0.00	C

ATOM	1741	C	LEU	A	245	1.156	-11.181	-4.835	0.00	0.00	C
ATOM	1742	O	LEU	A	245	0.927	-11.573	-3.667	0.00	0.00	O
ATOM	1743	CB	LEU	A	245	0.110	-9.132	-5.777	0.00	0.00	C
ATOM	1744	CG	LEU	A	245	-1.187	-9.144	-4.924	0.00	0.00	C
ATOM	1745	CD1	LEU	A	245	-1.074	-8.219	-3.690	0.00	0.00	C
ATOM	1746	CD2	LEU	A	245	-2.384	-8.703	-5.793	0.00	0.00	C
ATOM	1747	N	SER	A	246	1.212	-12.081	-5.838	0.00	0.00	N
ATOM	1748	CA	SER	A	246	1.110	-13.498	-5.646	0.00	0.00	C
ATOM	1749	C	SER	A	246	2.078	-13.996	-4.634	0.00	0.00	C
ATOM	1750	O	SER	A	246	1.671	-14.688	-3.667	0.00	0.00	O
ATOM	1751	CB	SER	A	246	1.310	-14.227	-6.994	0.00	0.00	C
ATOM	1752	OG	SER	A	246	0.477	-13.684	-8.019	0.00	0.00	O
ATOM	1753	N	VAL	A	247	3.382	-13.650	-4.732	0.00	0.00	N
ATOM	1754	CA	VAL	A	247	4.379	-13.990	-3.756	0.00	0.00	C
ATOM	1755	C	VAL	A	247	4.054	-13.412	-2.422	0.00	0.00	C
ATOM	1756	O	VAL	A	247	4.039	-14.195	-1.441	0.00	0.00	O
ATOM	1757	CB	VAL	A	247	5.798	-13.596	-4.263	0.00	0.00	C
ATOM	1758	CG1	VAL	A	247	6.895	-13.987	-3.246	0.00	0.00	C
ATOM	1759	CG2	VAL	A	247	6.149	-14.286	-5.605	0.00	0.00	C
ATOM	1760	N	VAL	A	248	3.721	-12.106	-2.261	0.00	0.00	N
ATOM	1761	CA	VAL	A	248	3.255	-11.530	-1.020	0.00	0.00	C
ATOM	1762	C	VAL	A	248	2.193	-12.359	-0.407	0.00	0.00	C
ATOM	1763	O	VAL	A	248	2.334	-12.740	0.778	0.00	0.00	O
ATOM	1764	CB	VAL	A	248	2.765	-10.060	-1.225	0.00	0.00	C
ATOM	1765	CG1	VAL	A	248	1.847	-9.526	-0.095	0.00	0.00	C
ATOM	1766	CG2	VAL	A	248	3.957	-9.093	-1.374	0.00	0.00	C
ATOM	1767	N	SER	A	249	1.099	-12.709	-1.120	0.00	0.00	N
ATOM	1768	CA	SER	A	249	0.055	-13.541	-0.607	0.00	0.00	C
ATOM	1769	C	SER	A	249	0.582	-14.832	-0.106	0.00	0.00	C
ATOM	1770	O	SER	A	249	0.457	-15.105	1.114	0.00	0.00	O
ATOM	1771	CB	SER	A	249	-1.075	-13.716	-1.652	0.00	0.00	C
ATOM	1772	OG	SER	A	249	-0.870	-14.780	-2.582	0.00	0.00	O
ATOM	1773	N	LEU	A	250	1.268	-15.664	-0.925	0.00	0.00	N
ATOM	1774	CA	LEU	A	250	1.788	-16.932	-0.506	0.00	0.00	C
ATOM	1775	C	LEU	A	250	2.620	-16.824	0.716	0.00	0.00	C
ATOM	1776	O	LEU	A	250	2.398	-17.599	1.675	0.00	0.00	O
ATOM	1777	CB	LEU	A	250	2.566	-17.580	-1.681	0.00	0.00	C
ATOM	1778	CG	LEU	A	250	3.104	-19.013	-1.399	0.00	0.00	C
ATOM	1779	CD1	LEU	A	250	1.975	-20.033	-1.124	0.00	0.00	C
ATOM	1780	CD2	LEU	A	250	3.962	-19.502	-2.586	0.00	0.00	C
ATOM	1781	N	PHE	A	251	3.580	-15.880	0.804	0.00	0.00	N
ATOM	1782	CA	PHE	A	251	4.425	-15.705	1.944	0.00	0.00	C
ATOM	1783	C	PHE	A	251	3.764	-15.203	3.182	0.00	0.00	C
ATOM	1784	O	PHE	A	251	4.471	-15.182	4.218	0.00	0.00	O
ATOM	1785	CB	PHE	A	251	5.594	-14.774	1.516	0.00	0.00	C
ATOM	1786	CG	PHE	A	251	6.629	-15.329	0.603	0.00	0.00	C
ATOM	1787	CD1	PHE	A	251	6.591	-16.627	0.057	0.00	0.00	C
ATOM	1788	CD2	PHE	A	251	7.728	-14.509	0.286	0.00	0.00	C
ATOM	1789	CE1	PHE	A	251	7.628	-17.095	-0.760	0.00	0.00	C
ATOM	1790	CE2	PHE	A	251	8.772	-14.977	-0.521	0.00	0.00	C
ATOM	1791	CZ	PHE	A	251	8.724	-16.274	-1.044	0.00	0.00	C
ATOM	1792	N	PHE	A	252	2.472	-14.797	3.261	0.00	0.00	N
ATOM	1793	CA	PHE	A	252	1.863	-14.322	4.480	0.00	0.00	C
ATOM	1794	C	PHE	A	252	0.581	-15.005	4.791	0.00	0.00	C
ATOM	1795	O	PHE	A	252	0.157	-15.065	5.974	0.00	0.00	O
ATOM	1796	CB	PHE	A	252	1.692	-12.784	4.378	0.00	0.00	C
ATOM	1797	CG	PHE	A	252	1.323	-12.158	5.668	0.00	0.00	C
ATOM	1798	CD1	PHE	A	252	2.226	-12.155	6.745	0.00	0.00	C
ATOM	1799	CD2	PHE	A	252	0.057	-11.571	5.842	0.00	0.00	C
ATOM	1800	CE1	PHE	A	252	1.854	-11.622	7.985	0.00	0.00	C
ATOM	1801	CE2	PHE	A	252	-0.308	-11.019	7.077	0.00	0.00	C
ATOM	1802	CZ	PHE	A	252	0.587	-11.052	8.153	0.00	0.00	C
ATOM	1803	N	GLY	A	253	-0.137	-15.583	3.803	0.00	0.00	N
ATOM	1804	CA	GLY	A	253	-1.331	-16.340	3.994	0.00	0.00	C
ATOM	1805	C	GLY	A	253	-1.243	-17.356	5.056	0.00	0.00	C
ATOM	1806	O	GLY	A	253	-2.133	-17.382	5.932	0.00	0.00	O
ATOM	1807	N	THR	A	254	-0.212	-18.225	5.103	0.00	0.00	N
ATOM	1808	CA	THR	A	254	-0.050	-19.249	6.100	0.00	0.00	C
ATOM	1809	C	THR	A	254	-0.041	-18.733	7.461	0.00	0.00	C
ATOM	1810	O	THR	A	254	-0.790	-19.250	8.281	0.00	0.00	O
ATOM	1811	CB	THR	A	254	1.248	-20.062	5.856	0.00	0.00	C
ATOM	1812	OG1	THR	A	254	2.372	-19.195	5.930	0.00	0.00	O
ATOM	1813	CG2	THR	A	254	1.270	-20.782	4.496	0.00	0.00	C
ATOM	1814	N	SER	A	255	0.730	-17.713	7.802	0.00	0.00	N
ATOM	1815	CA	SER	A	255	0.732	-17.121	9.107	0.00	0.00	C
ATOM	1816	C	SER	A	255	-0.591	-16.544	9.417	0.00	0.00	C
ATOM	1817	O	SER	A	255	-1.144	-16.924	10.468	0.00	0.00	O

ATOM	1818	CB	SER	A	255	1.828	-16.050	9.265	0.00	0.00	C
ATOM	1819	OG	SER	A	255	1.660	-15.008	8.312	0.00	0.00	O
ATOM	1820	N	PHE	A	256	-1.245	-15.711	8.569	0.00	0.00	N
ATOM	1821	CA	PHE	A	256	-2.575	-15.239	8.854	0.00	0.00	C
ATOM	1822	C	PHE	A	256	-3.551	-16.347	9.082	0.00	0.00	C
ATOM	1823	O	PHE	A	256	-4.353	-16.265	10.040	0.00	0.00	O
ATOM	1824	CB	PHE	A	256	-3.030	-14.270	7.736	0.00	0.00	C
ATOM	1825	CG	PHE	A	256	-4.414	-13.785	7.942	0.00	0.00	C
ATOM	1826	CD1	PHE	A	256	-5.489	-14.436	7.311	0.00	0.00	C
ATOM	1827	CD2	PHE	A	256	-4.683	-12.698	8.793	0.00	0.00	C
ATOM	1828	CE1	PHE	A	256	-6.807	-14.019	7.534	0.00	0.00	C
ATOM	1829	CE2	PHE	A	256	-6.001	-12.268	8.998	0.00	0.00	C
ATOM	1830	CZ	PHE	A	256	-7.064	-12.933	8.378	0.00	0.00	C
ATOM	1831	N	CYS	A	257	-3.590	-17.445	8.295	0.00	0.00	N
ATOM	1832	CA	CYS	A	257	-4.415	-18.593	8.552	0.00	0.00	C
ATOM	1833	C	CYS	A	257	-4.123	-19.218	9.865	0.00	0.00	C
ATOM	1834	O	CYS	A	257	-5.060	-19.412	10.674	0.00	0.00	O
ATOM	1835	CB	CYS	A	257	-4.267	-19.647	7.432	0.00	0.00	C
ATOM	1836	SG	CYS	A	257	-4.755	-18.984	5.828	0.00	0.00	S
ATOM	1837	N	VAL	A	258	-2.863	-19.548	10.222	0.00	0.00	N
ATOM	1838	CA	VAL	A	258	-2.509	-20.036	11.526	0.00	0.00	C
ATOM	1839	C	VAL	A	258	-2.998	-19.110	12.582	0.00	0.00	C
ATOM	1840	O	VAL	A	258	-3.684	-19.568	13.526	0.00	0.00	O
ATOM	1841	CB	VAL	A	258	-0.975	-20.304	11.560	0.00	0.00	C
ATOM	1842	CG1	VAL	A	258	-0.402	-20.420	12.988	0.00	0.00	C
ATOM	1843	CG2	VAL	A	258	-0.633	-21.604	10.791	0.00	0.00	C
ATOM	1844	N	ASP	A	259	-2.796	-17.782	12.494	0.00	0.00	N
ATOM	1845	CA	ASP	A	259	-3.335	-16.796	13.377	0.00	0.00	C
ATOM	1846	C	ASP	A	259	-4.825	-16.758	13.432	0.00	0.00	C
ATOM	1847	O	ASP	A	259	-5.336	-16.033	14.318	0.00	0.00	O
ATOM	1848	CB	ASP	A	259	-2.780	-15.401	12.976	0.00	0.00	C
ATOM	1849	CG	ASP	A	259	-1.318	-15.230	13.025	0.00	0.00	C
ATOM	1850	OD1	ASP	A	259	-0.545	-16.114	13.453	0.00	0.00	O
ATOM	1851	OD2	ASP	A	259	-0.815	-14.156	12.628	0.00	0.00	O1-
ATOM	1852	N	PHE	A	260	-5.652	-17.479	12.629	0.00	0.00	N
ATOM	1853	CA	PHE	A	260	-7.081	-17.518	12.773	0.00	0.00	C
ATOM	1854	C	PHE	A	260	-7.562	-18.881	13.095	0.00	0.00	C
ATOM	1855	O	PHE	A	260	-8.655	-19.020	13.692	0.00	0.00	O
ATOM	1856	CB	PHE	A	260	-7.817	-16.903	11.557	0.00	0.00	C
ATOM	1857	CG	PHE	A	260	-8.908	-16.032	12.046	0.00	0.00	C
ATOM	1858	CD1	PHE	A	260	-8.629	-14.692	12.356	0.00	0.00	C
ATOM	1859	CD2	PHE	A	260	-10.198	-16.534	12.290	0.00	0.00	C
ATOM	1860	CE1	PHE	A	260	-9.613	-13.870	12.916	0.00	0.00	C
ATOM	1861	CE2	PHE	A	260	-11.186	-15.711	12.848	0.00	0.00	C
ATOM	1862	CZ	PHE	A	260	-10.893	-14.379	13.164	0.00	0.00	C
ATOM	1863	N	SER	A	261	-6.802	-19.969	12.856	0.00	0.00	N
ATOM	1864	CA	SER	A	261	-6.984	-21.201	13.570	0.00	0.00	C
ATOM	1865	C	SER	A	261	-6.678	-21.006	15.012	0.00	0.00	C
ATOM	1866	O	SER	A	261	-7.471	-21.430	15.878	0.00	0.00	O
ATOM	1867	CB	SER	A	261	-6.125	-22.344	12.987	0.00	0.00	C
ATOM	1868	OG	SER	A	261	-4.745	-22.139	13.266	0.00	0.00	O
ATOM	1869	N	SER	A	262	-5.565	-20.353	15.417	0.00	0.00	N
ATOM	1870	CA	SER	A	262	-5.189	-20.121	16.785	0.00	0.00	C
ATOM	1871	C	SER	A	262	-6.234	-19.624	17.732	0.00	0.00	C
ATOM	1872	O	SER	A	262	-6.342	-20.256	18.812	0.00	0.00	O
ATOM	1873	CB	SER	A	262	-3.937	-19.224	16.864	0.00	0.00	C
ATOM	1874	OG	SER	A	262	-2.868	-19.819	16.140	0.00	0.00	O
ATOM	1875	N	PRO	A	263	-7.073	-18.567	17.523	0.00	0.00	N
ATOM	1876	CA	PRO	A	263	-8.137	-18.210	18.423	0.00	0.00	C
ATOM	1877	C	PRO	A	263	-9.184	-19.243	18.592	0.00	0.00	C
ATOM	1878	O	PRO	A	263	-10.045	-19.071	19.485	0.00	0.00	O
ATOM	1879	CB	PRO	A	263	-8.728	-16.908	17.844	0.00	0.00	C
ATOM	1880	CG	PRO	A	263	-8.331	-16.967	16.371	0.00	0.00	C
ATOM	1881	CD	PRO	A	263	-6.973	-17.674	16.424	0.00	0.00	C
ATOM	1882	N	SER	A	264	-9.186	-20.387	17.872	0.00	0.00	N
ATOM	1883	CA	SER	A	264	-9.950	-21.533	18.224	0.00	0.00	C
ATOM	1884	C	SER	A	264	-9.002	-22.479	18.858	0.00	0.00	C
ATOM	1885	O	SER	A	264	-9.288	-22.931	19.988	0.00	0.00	O
ATOM	1886	CB	SER	A	264	-10.688	-22.136	17.003	0.00	0.00	C
ATOM	1887	OG	SER	A	264	-9.804	-22.835	16.131	0.00	0.00	O
ATOM	1888	N	THR	A	265	-7.843	-22.844	18.240	0.00	0.00	N
ATOM	1889	CA	THR	A	265	-6.921	-23.825	18.762	0.00	0.00	C
ATOM	1890	C	THR	A	265	-5.450	-23.605	18.473	0.00	0.00	C
ATOM	1891	O	THR	A	265	-4.829	-24.449	17.786	0.00	0.00	O
ATOM	1892	CB	THR	A	265	-7.419	-25.256	18.343	0.00	0.00	C
ATOM	1893	OG1	THR	A	265	-7.219	-25.437	16.948	0.00	0.00	O
ATOM	1894	CG2	THR	A	265	-8.891	-25.612	18.636	0.00	0.00	C

ATOM	1895	N	HIS	A	266	-4.770	-22.539	18.977	0.00	0.00	N1+
ATOM	1896	CA	HIS	A	266	-3.362	-22.313	19.336	0.00	0.00	C
ATOM	1897	C	HIS	A	266	-2.188	-22.220	18.385	0.00	0.00	C
ATOM	1898	O	HIS	A	266	-2.031	-23.126	17.536	0.00	0.00	O
ATOM	1899	CB	HIS	A	266	-2.980	-23.158	20.589	0.00	0.00	C
ATOM	1900	CG	HIS	A	266	-2.473	-24.528	20.365	0.00	0.00	C
ATOM	1901	ND1	HIS	A	266	-2.984	-25.422	19.520	0.00	0.00	N
ATOM	1902	CD2	HIS	A	266	-1.410	-25.169	20.995	0.00	0.00	C
ATOM	1903	CE1	HIS	A	266	-2.316	-26.576	19.628	0.00	0.00	C
ATOM	1904	NE2	HIS	A	266	-1.339	-26.431	20.538	0.00	0.00	N
ATOM	1905	N	SER	A	267	-1.231	-21.239	18.515	0.00	0.00	N
ATOM	1906	CA	SER	A	267	0.076	-21.148	17.858	0.00	0.00	C
ATOM	1907	C	SER	A	267	1.003	-20.072	18.365	0.00	0.00	C
ATOM	1908	O	SER	A	267	0.781	-19.555	19.483	0.00	0.00	O
ATOM	1909	CB	SER	A	267	-0.032	-21.067	16.318	0.00	0.00	C
ATOM	1910	OG	SER	A	267	1.225	-21.390	15.711	0.00	0.00	O
ATOM	1911	N	ALA	A	268	2.131	-19.705	17.688	0.00	0.00	N1+
ATOM	1912	CA	ALA	A	268	3.271	-18.923	18.157	0.00	0.00	C
ATOM	1913	C	ALA	A	268	3.673	-17.687	17.454	0.00	0.00	C
ATOM	1914	O	ALA	A	268	3.401	-17.537	16.273	0.00	0.00	O
ATOM	1915	CB	ALA	A	268	4.472	-19.898	18.117	0.00	0.00	C
ATOM	1916	N	GLN	A	269	4.400	-16.765	18.074	0.00	0.00	N
ATOM	1917	CA	GLN	A	269	4.826	-15.477	17.571	0.00	0.00	C
ATOM	1918	C	GLN	A	269	6.001	-15.409	16.656	0.00	0.00	C
ATOM	1919	O	GLN	A	269	5.929	-14.687	15.636	0.00	0.00	O
ATOM	1920	CB	GLN	A	269	5.089	-14.529	18.782	0.00	0.00	C
ATOM	1921	CG	GLN	A	269	6.319	-14.856	19.677	0.00	0.00	C
ATOM	1922	CD	GLN	A	269	6.316	-16.245	20.135	0.00	0.00	C
ATOM	1923	OE1	GLN	A	269	7.109	-17.074	19.640	0.00	0.00	O
ATOM	1924	NE2	GLN	A	269	5.398	-16.666	21.009	0.00	0.00	N
ATOM	1925	N	LYS	A	270	7.192	-15.996	16.922	0.00	0.00	N
ATOM	1926	CA	LYS	A	270	8.367	-15.827	16.093	0.00	0.00	C
ATOM	1927	C	LYS	A	270	8.158	-16.071	14.638	0.00	0.00	C
ATOM	1928	O	LYS	A	270	8.839	-15.459	13.778	0.00	0.00	O
ATOM	1929	CB	LYS	A	270	9.551	-16.668	16.629	0.00	0.00	C
ATOM	1930	CG	LYS	A	270	9.240	-18.178	16.782	0.00	0.00	C
ATOM	1931	CD	LYS	A	270	10.508	-19.028	17.029	0.00	0.00	C
ATOM	1932	CE	LYS	A	270	11.295	-19.383	15.749	0.00	0.00	C
ATOM	1933	NZ	LYS	A	270	10.590	-20.386	14.942	0.00	0.00	N1+
ATOM	1934	N	ASP	A	271	7.204	-16.935	14.242	0.00	0.00	N
ATOM	1935	CA	ASP	A	271	6.903	-17.257	12.885	0.00	0.00	C
ATOM	1936	C	ASP	A	271	6.011	-16.251	12.262	0.00	0.00	C
ATOM	1937	O	ASP	A	271	6.140	-15.995	11.043	0.00	0.00	O
ATOM	1938	CB	ASP	A	271	6.352	-18.703	12.875	0.00	0.00	C
ATOM	1939	CG	ASP	A	271	7.369	-19.692	13.267	0.00	0.00	C
ATOM	1940	OD1	ASP	A	271	8.566	-19.378	13.456	0.00	0.00	O
ATOM	1941	OD2	ASP	A	271	7.072	-20.891	13.439	0.00	0.00	O1-
ATOM	1942	N	THR	A	272	5.182	-15.504	13.023	0.00	0.00	N
ATOM	1943	CA	THR	A	272	4.485	-14.331	12.588	0.00	0.00	C
ATOM	1944	C	THR	A	272	5.485	-13.331	12.139	0.00	0.00	C
ATOM	1945	O	THR	A	272	5.437	-12.846	10.983	0.00	0.00	O
ATOM	1946	CB	THR	A	272	3.645	-13.790	13.780	0.00	0.00	C
ATOM	1947	OG1	THR	A	272	2.857	-14.814	14.379	0.00	0.00	O
ATOM	1948	CG2	THR	A	272	2.699	-12.646	13.409	0.00	0.00	C
ATOM	1949	N	VAL	A	273	6.506	-13.022	12.970	0.00	0.00	N
ATOM	1950	CA	VAL	A	273	7.601	-12.155	12.640	0.00	0.00	C
ATOM	1951	C	VAL	A	273	8.326	-12.633	11.429	0.00	0.00	C
ATOM	1952	O	VAL	A	273	8.488	-11.846	10.463	0.00	0.00	O
ATOM	1953	CB	VAL	A	273	8.531	-12.019	13.882	0.00	0.00	C
ATOM	1954	CG1	VAL	A	273	9.784	-11.166	13.603	0.00	0.00	C
ATOM	1955	CG2	VAL	A	273	7.800	-11.396	15.095	0.00	0.00	C
ATOM	1956	N	ALA	A	274	8.792	-13.901	11.344	0.00	0.00	N
ATOM	1957	CA	ALA	A	274	9.386	-14.453	10.158	0.00	0.00	C
ATOM	1958	C	ALA	A	274	8.572	-14.260	8.928	0.00	0.00	C
ATOM	1959	O	ALA	A	274	9.124	-13.752	7.925	0.00	0.00	O
ATOM	1960	CB	ALA	A	274	9.686	-15.947	10.378	0.00	0.00	C
ATOM	1961	N	SER	A	275	7.263	-14.589	8.878	0.00	0.00	N
ATOM	1962	CA	SER	A	275	6.401	-14.329	7.759	0.00	0.00	C
ATOM	1963	C	SER	A	275	6.290	-12.894	7.408	0.00	0.00	C
ATOM	1964	O	SER	A	275	6.442	-12.554	6.209	0.00	0.00	O
ATOM	1965	CB	SER	A	275	5.009	-14.935	8.020	0.00	0.00	C
ATOM	1966	OG	SER	A	275	5.095	-16.359	8.047	0.00	0.00	O
ATOM	1967	N	VAL	A	276	6.093	-11.930	8.337	0.00	0.00	N
ATOM	1968	CA	VAL	A	276	6.168	-10.529	8.010	0.00	0.00	C
ATOM	1969	C	VAL	A	276	7.475	-10.227	7.356	0.00	0.00	C
ATOM	1970	O	VAL	A	276	7.490	-9.617	6.258	0.00	0.00	O
ATOM	1971	CB	VAL	A	276	5.908	-9.615	9.245	0.00	0.00	C

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ATOM	1972	CG1	VAL	A	276	5.952	-8.119	8.855	0.00	0.00	C
ATOM	1973	CG2	VAL	A	276	4.534	-9.862	9.909	0.00	0.00	C
ATOM	1974	N	MET	A	277	8.646	-10.671	7.868	0.00	0.00	N
ATOM	1975	CA	MET	A	277	9.901	-10.523	7.183	0.00	0.00	C
ATOM	1976	C	MET	A	277	10.020	-11.238	5.882	0.00	0.00	C
ATOM	1977	O	MET	A	277	11.045	-11.028	5.192	0.00	0.00	O
ATOM	1978	CB	MET	A	277	11.092	-10.888	8.107	0.00	0.00	C
ATOM	1979	CG	MET	A	277	11.374	-9.830	9.195	0.00	0.00	C
ATOM	1980	SD	MET	A	277	11.829	-8.207	8.537	0.00	0.00	S
ATOM	1981	CE	MET	A	277	13.539	-8.525	8.095	0.00	0.00	C
ATOM	1982	N	TYR	A	278	9.055	-12.029	5.365	0.00	0.00	N
ATOM	1983	CA	TYR	A	278	9.068	-12.565	4.039	0.00	0.00	C
ATOM	1984	C	TYR	A	278	8.299	-11.635	3.189	0.00	0.00	C
ATOM	1985	O	TYR	A	278	8.789	-11.256	2.099	0.00	0.00	O
ATOM	1986	CB	TYR	A	278	8.463	-13.989	4.014	0.00	0.00	C
ATOM	1987	CG	TYR	A	278	9.184	-15.046	4.759	0.00	0.00	C
ATOM	1988	CD1	TYR	A	278	10.523	-14.926	5.177	0.00	0.00	C
ATOM	1989	CD2	TYR	A	278	8.498	-16.241	5.037	0.00	0.00	C
ATOM	1990	CE1	TYR	A	278	11.155	-15.971	5.862	0.00	0.00	C
ATOM	1991	CE2	TYR	A	278	9.128	-17.284	5.729	0.00	0.00	C
ATOM	1992	CZ	TYR	A	278	10.458	-17.151	6.138	0.00	0.00	C
ATOM	1993	OH	TYR	A	278	11.069	-18.160	6.792	0.00	0.00	O
ATOM	1994	N	THR	A	279	7.139	-11.106	3.641	0.00	0.00	N
ATOM	1995	CA	THR	A	279	6.470	-10.010	2.993	0.00	0.00	C
ATOM	1996	C	THR	A	279	7.419	-8.901	2.743	0.00	0.00	C
ATOM	1997	O	THR	A	279	7.506	-8.438	1.584	0.00	0.00	O
ATOM	1998	CB	THR	A	279	5.250	-9.510	3.807	0.00	0.00	C
ATOM	1999	OG1	THR	A	279	4.390	-10.599	4.104	0.00	0.00	O
ATOM	2000	CG2	THR	A	279	4.409	-8.462	3.050	0.00	0.00	C
ATOM	2001	N	VAL	A	280	8.239	-8.440	3.716	0.00	0.00	N
ATOM	2002	CA	VAL	A	280	9.230	-7.423	3.472	0.00	0.00	C
ATOM	2003	C	VAL	A	280	10.357	-7.833	2.578	0.00	0.00	C
ATOM	2004	O	VAL	A	280	11.187	-6.954	2.261	0.00	0.00	O
ATOM	2005	CB	VAL	A	280	9.711	-6.693	4.771	0.00	0.00	C
ATOM	2006	CG1	VAL	A	280	8.642	-6.588	5.880	0.00	0.00	C
ATOM	2007	CG2	VAL	A	280	11.036	-7.222	5.366	0.00	0.00	C
ATOM	2008	N	VAL	A	281	10.529	-9.054	2.018	0.00	0.00	N
ATOM	2009	CA	VAL	A	281	11.588	-9.364	1.088	0.00	0.00	C
ATOM	2010	C	VAL	A	281	11.092	-9.226	-0.304	0.00	0.00	C
ATOM	2011	O	VAL	A	281	11.883	-8.854	-1.205	0.00	0.00	O
ATOM	2012	CB	VAL	A	281	12.202	-10.758	1.429	0.00	0.00	C
ATOM	2013	CG1	VAL	A	281	12.938	-11.441	0.251	0.00	0.00	C
ATOM	2014	CG2	VAL	A	281	13.187	-10.631	2.616	0.00	0.00	C
ATOM	2015	N	THR	A	282	9.792	-9.418	-0.612	0.00	0.00	N
ATOM	2016	CA	THR	A	282	9.240	-9.240	-1.928	0.00	0.00	C
ATOM	2017	C	THR	A	282	9.610	-7.955	-2.584	0.00	0.00	C
ATOM	2018	O	THR	A	282	10.004	-8.051	-3.772	0.00	0.00	O
ATOM	2019	CB	THR	A	282	7.713	-9.486	-2.000	0.00	0.00	C
ATOM	2020	OG1	THR	A	282	6.980	-8.388	-1.485	0.00	0.00	O
ATOM	2021	CG2	THR	A	282	7.294	-10.777	-1.275	0.00	0.00	C
ATOM	2022	N	PRO	A	283	9.629	-6.723	-1.998	0.00	0.00	N
ATOM	2023	CA	PRO	A	283	10.134	-5.544	-2.659	0.00	0.00	C
ATOM	2024	C	PRO	A	283	11.544	-5.581	-3.128	0.00	0.00	C
ATOM	2025	O	PRO	A	283	11.999	-4.584	-3.739	0.00	0.00	O
ATOM	2026	CB	PRO	A	283	9.925	-4.413	-1.635	0.00	0.00	C
ATOM	2027	CG	PRO	A	283	9.777	-5.150	-0.304	0.00	0.00	C
ATOM	2028	CD	PRO	A	283	9.092	-6.444	-0.706	0.00	0.00	C
ATOM	2029	N	MET	A	284	12.358	-6.650	-2.967	0.00	0.00	N
ATOM	2030	CA	MET	A	284	13.614	-6.773	-3.644	0.00	0.00	C
ATOM	2031	C	MET	A	284	13.532	-7.724	-4.783	0.00	0.00	C
ATOM	2032	O	MET	A	284	14.492	-7.799	-5.584	0.00	0.00	O
ATOM	2033	CB	MET	A	284	14.712	-7.107	-2.603	0.00	0.00	C
ATOM	2034	CG	MET	A	284	14.876	-8.610	-2.292	0.00	0.00	C
ATOM	2035	SD	MET	A	284	16.411	-9.213	-3.033	0.00	0.00	S
ATOM	2036	CE	MET	A	284	15.923	-10.945	-3.115	0.00	0.00	C
ATOM	2037	N	LEU	A	285	12.431	-8.478	-5.012	0.00	0.00	N
ATOM	2038	CA	LEU	A	285	12.304	-9.442	-6.060	0.00	0.00	C
ATOM	2039	C	LEU	A	285	11.807	-8.811	-7.303	0.00	0.00	C
ATOM	2040	O	LEU	A	285	12.060	-9.372	-8.392	0.00	0.00	O
ATOM	2041	CB	LEU	A	285	11.382	-10.610	-5.609	0.00	0.00	C
ATOM	2042	CG	LEU	A	285	12.019	-11.556	-4.553	0.00	0.00	C
ATOM	2043	CD1	LEU	A	285	10.947	-12.447	-3.886	0.00	0.00	C
ATOM	2044	CD2	LEU	A	285	13.092	-12.474	-5.180	0.00	0.00	C
ATOM	2045	N	ASN	A	286	11.142	-7.635	-7.287	0.00	0.00	N
ATOM	2046	CA	ASN	A	286	10.739	-6.879	-8.438	0.00	0.00	C
ATOM	2047	C	ASN	A	286	11.880	-6.588	-9.363	0.00	0.00	C
ATOM	2048	O	ASN	A	286	11.821	-7.096	-10.514	0.00	0.00	O

ATOM	2049	CB	ASN	A	286	9.942	-5.643	-7.918	0.00	0.00	C
ATOM	2050	CG	ASN	A	286	9.840	-4.500	-8.838	0.00	0.00	C
ATOM	2051	OD1	ASN	A	286	9.526	-4.680	-10.035	0.00	0.00	O
ATOM	2052	ND2	ASN	A	286	10.065	-3.239	-8.447	0.00	0.00	N
ATOM	2053	N	PRO	A	287	12.991	-5.864	-9.034	0.00	0.00	N
ATOM	2054	CA	PRO	A	287	14.067	-5.636	-9.960	0.00	0.00	C
ATOM	2055	C	PRO	A	287	14.698	-6.858	-10.431	0.00	0.00	C
ATOM	2056	O	PRO	A	287	14.998	-6.939	-11.616	0.00	0.00	O
ATOM	2057	CB	PRO	A	287	15.045	-4.707	-9.214	0.00	0.00	C
ATOM	2058	CG	PRO	A	287	14.689	-4.888	-7.737	0.00	0.00	C
ATOM	2059	CD	PRO	A	287	13.198	-5.234	-7.768	0.00	0.00	C
ATOM	2060	N	PHE	A	288	14.890	-7.884	-9.623	0.00	0.00	N
ATOM	2061	CA	PHE	A	288	15.366	-9.168	-10.046	0.00	0.00	C
ATOM	2062	C	PHE	A	288	14.469	-9.785	-11.056	0.00	0.00	C
ATOM	2063	O	PHE	A	288	14.940	-10.014	-12.193	0.00	0.00	O
ATOM	2064	CB	PHE	A	288	15.562	-10.097	-8.818	0.00	0.00	C
ATOM	2065	CG	PHE	A	288	16.914	-9.996	-8.223	0.00	0.00	C
ATOM	2066	CD1	PHE	A	288	18.037	-10.469	-8.925	0.00	0.00	C
ATOM	2067	CD2	PHE	A	288	17.099	-9.454	-6.940	0.00	0.00	C
ATOM	2068	CE1	PHE	A	288	19.318	-10.390	-8.362	0.00	0.00	C
ATOM	2069	CE2	PHE	A	288	18.378	-9.375	-6.375	0.00	0.00	C
ATOM	2070	CZ	PHE	A	288	19.489	-9.839	-7.086	0.00	0.00	C
ATOM	2071	N	ILE	A	289	13.164	-10.051	-10.824	0.00	0.00	N
ATOM	2072	CA	ILE	A	289	12.257	-10.614	-11.787	0.00	0.00	C
ATOM	2073	C	ILE	A	289	12.259	-9.819	-13.032	0.00	0.00	C
ATOM	2074	O	ILE	A	289	12.286	-10.417	-14.135	0.00	0.00	O
ATOM	2075	CB	ILE	A	289	10.824	-10.758	-11.184	0.00	0.00	C
ATOM	2076	CG1	ILE	A	289	10.810	-11.906	-10.135	0.00	0.00	C
ATOM	2077	CG2	ILE	A	289	9.740	-11.012	-12.269	0.00	0.00	C
ATOM	2078	CD1	ILE	A	289	9.517	-11.982	-9.298	0.00	0.00	C
ATOM	2079	N	TYR	A	290	12.272	-8.468	-13.000	0.00	0.00	N
ATOM	2080	CA	TYR	A	290	12.346	-7.679	-14.184	0.00	0.00	C
ATOM	2081	C	TYR	A	290	13.535	-7.937	-15.046	0.00	0.00	C
ATOM	2082	O	TYR	A	290	13.493	-7.406	-16.183	0.00	0.00	O
ATOM	2083	CB	TYR	A	290	12.214	-6.178	-13.802	0.00	0.00	C
ATOM	2084	CG	TYR	A	290	11.490	-5.365	-14.808	0.00	0.00	C
ATOM	2085	CD1	TYR	A	290	10.136	-5.627	-15.081	0.00	0.00	C
ATOM	2086	CD2	TYR	A	290	12.120	-4.304	-15.481	0.00	0.00	C
ATOM	2087	CE1	TYR	A	290	9.438	-4.882	-16.040	0.00	0.00	C
ATOM	2088	CE2	TYR	A	290	11.411	-3.533	-16.414	0.00	0.00	C
ATOM	2089	CZ	TYR	A	290	10.079	-3.839	-16.714	0.00	0.00	C
ATOM	2090	OH	TYR	A	290	9.407	-3.135	-17.650	0.00	0.00	O
ATOM	2091	N	SER	A	291	14.584	-8.735	-14.700	0.00	0.00	N
ATOM	2092	CA	SER	A	291	15.750	-9.016	-15.506	0.00	0.00	C
ATOM	2093	C	SER	A	291	15.526	-9.861	-16.710	0.00	0.00	C
ATOM	2094	O	SER	A	291	16.348	-10.731	-17.082	0.00	0.00	O
ATOM	2095	CB	SER	A	291	16.887	-9.617	-14.644	0.00	0.00	C
ATOM	2096	OG	SER	A	291	17.101	-8.855	-13.465	0.00	0.00	O
ATOM	2097	N	LEU	A	292	14.503	-9.540	-17.519	0.00	0.00	N1+
ATOM	2098	CA	LEU	A	292	14.418	-9.877	-18.901	0.00	0.00	C
ATOM	2099	C	LEU	A	292	15.090	-8.755	-19.604	0.00	0.00	C
ATOM	2100	O	LEU	A	292	15.310	-7.656	-19.043	0.00	0.00	O
ATOM	2101	CB	LEU	A	292	12.967	-10.097	-19.402	0.00	0.00	C
ATOM	2102	CG	LEU	A	292	12.231	-11.390	-18.954	0.00	0.00	C
ATOM	2103	CD1	LEU	A	292	12.869	-12.674	-19.530	0.00	0.00	C
ATOM	2104	CD2	LEU	A	292	12.074	-11.529	-17.423	0.00	0.00	C
ATOM	2105	N	ARG	A	293	15.556	-8.915	-20.851	0.00	0.00	N
ATOM	2106	CA	ARG	A	293	16.661	-8.199	-21.386	0.00	0.00	C
ATOM	2107	C	ARG	A	293	16.253	-7.282	-22.477	0.00	0.00	C
ATOM	2108	O	ARG	A	293	16.214	-7.681	-23.664	0.00	0.00	O
ATOM	2109	CB	ARG	A	293	17.725	-9.291	-21.710	0.00	0.00	C
ATOM	2110	CG	ARG	A	293	17.441	-10.399	-22.774	0.00	0.00	C
ATOM	2111	CD	ARG	A	293	16.063	-11.109	-22.776	0.00	0.00	C
ATOM	2112	NE	ARG	A	293	15.127	-10.171	-23.280	0.00	0.00	N
ATOM	2113	CZ	ARG	A	293	13.822	-10.297	-23.484	0.00	0.00	C
ATOM	2114	NH1	ARG	A	293	13.122	-11.385	-23.215	0.00	0.00	N
ATOM	2115	NH2	ARG	A	293	13.215	-9.233	-23.976	0.00	0.00	N1+
ATOM	2116	N	ASN	A	294	15.890	-6.012	-22.187	0.00	0.00	N
ATOM	2117	CA	ASN	A	294	15.556	-5.025	-23.176	0.00	0.00	C
ATOM	2118	C	ASN	A	294	16.548	-3.927	-23.192	0.00	0.00	C
ATOM	2119	O	ASN	A	294	17.342	-3.738	-22.241	0.00	0.00	O
ATOM	2120	CB	ASN	A	294	14.121	-4.478	-22.969	0.00	0.00	C
ATOM	2121	CG	ASN	A	294	13.435	-4.128	-24.225	0.00	0.00	C
ATOM	2122	OD1	ASN	A	294	13.958	-3.384	-25.080	0.00	0.00	O
ATOM	2123	ND2	ASN	A	294	12.215	-4.593	-24.498	0.00	0.00	N
ATOM	2124	N	GLN	A	295	16.556	-3.121	-24.266	0.00	0.00	N
ATOM	2125	CA	GLN	A	295	17.623	-2.257	-24.642	0.00	0.00	C

ATOM	2126	C	GLN	A	295	17.534	-0.939	-24.049	0.00	0.00	C
ATOM	2127	O	GLN	A	295	18.543	-0.258	-24.083	0.00	0.00	O
ATOM	2128	CB	GLN	A	295	17.713	-2.239	-26.192	0.00	0.00	C
ATOM	2129	CG	GLN	A	295	19.117	-1.874	-26.742	0.00	0.00	C
ATOM	2130	CD	GLN	A	295	20.147	-2.873	-26.420	0.00	0.00	C
ATOM	2131	OE1	GLN	A	295	20.244	-3.944	-27.054	0.00	0.00	O
ATOM	2132	NE2	GLN	A	295	21.018	-2.720	-25.419	0.00	0.00	N
ATOM	2133	N	GLU	A	296	16.453	-0.532	-23.413	0.00	0.00	N
ATOM	2134	CA	GLU	A	296	16.387	0.644	-22.592	0.00	0.00	C
ATOM	2135	C	GLU	A	296	16.129	0.287	-21.176	0.00	0.00	C
ATOM	2136	O	GLU	A	296	15.867	1.160	-20.317	0.00	0.00	O
ATOM	2137	CB	GLU	A	296	15.342	1.619	-23.196	0.00	0.00	C
ATOM	2138	CG	GLU	A	296	15.725	3.111	-23.007	0.00	0.00	C
ATOM	2139	CD	GLU	A	296	16.837	3.542	-23.871	0.00	0.00	C
ATOM	2140	OE1	GLU	A	296	16.644	4.411	-24.746	0.00	0.00	O
ATOM	2141	OE2	GLU	A	296	17.974	3.030	-23.765	0.00	0.00	O1-
ATOM	2142	N	ILE	A	297	16.261	-0.994	-20.770	0.00	0.00	N
ATOM	2143	CA	ILE	A	297	16.206	-1.420	-19.403	0.00	0.00	C
ATOM	2144	C	ILE	A	297	17.598	-1.778	-19.055	0.00	0.00	C
ATOM	2145	O	ILE	A	297	18.261	-1.141	-18.199	0.00	0.00	O
ATOM	2146	CB	ILE	A	297	15.199	-2.606	-19.237	0.00	0.00	C
ATOM	2147	CG1	ILE	A	297	13.745	-2.159	-19.563	0.00	0.00	C
ATOM	2148	CG2	ILE	A	297	15.266	-3.202	-17.805	0.00	0.00	C
ATOM	2149	CD1	ILE	A	297	12.725	-3.311	-19.697	0.00	0.00	C
ATOM	2150	N	LYS	A	298	18.195	-2.768	-19.747	0.00	0.00	N
ATOM	2151	CA	LYS	A	298	19.468	-3.313	-19.438	0.00	0.00	C
ATOM	2152	C	LYS	A	298	20.550	-2.499	-20.046	0.00	0.00	C
ATOM	2153	O	LYS	A	298	21.736	-2.893	-19.985	0.00	0.00	O
ATOM	2154	CB	LYS	A	298	19.404	-4.782	-19.919	0.00	0.00	C
ATOM	2155	CG	LYS	A	298	20.445	-5.711	-19.248	0.00	0.00	C
ATOM	2156	CD	LYS	A	298	21.101	-6.678	-20.256	0.00	0.00	C
ATOM	2157	CE	LYS	A	298	22.118	-5.965	-21.165	0.00	0.00	C
ATOM	2158	NZ	LYS	A	298	22.579	-6.889	-22.201	0.00	0.00	N1+
ATOM	2159	N	SER	A	299	20.283	-1.303	-20.611	0.00	0.00	N
ATOM	2160	CA	SER	A	299	21.271	-0.311	-20.914	0.00	0.00	C
ATOM	2161	C	SER	A	299	21.153	0.820	-19.974	0.00	0.00	C
ATOM	2162	O	SER	A	299	22.123	1.604	-19.893	0.00	0.00	O
ATOM	2163	CB	SER	A	299	21.157	0.216	-22.359	0.00	0.00	C
ATOM	2164	OG	SER	A	299	21.086	-0.852	-23.299	0.00	0.00	O
ATOM	2165	N	SER	A	300	20.076	0.956	-19.171	0.00	0.00	N
ATOM	2166	CA	SER	A	300	19.848	2.051	-18.278	0.00	0.00	C
ATOM	2167	C	SER	A	300	20.375	1.659	-16.963	0.00	0.00	C
ATOM	2168	O	SER	A	300	21.087	2.449	-16.307	0.00	0.00	O
ATOM	2169	CB	SER	A	300	18.337	2.363	-18.242	0.00	0.00	C
ATOM	2170	OG	SER	A	300	17.938	2.801	-19.536	0.00	0.00	O
ATOM	2171	N	LEU	A	301	20.219	0.382	-16.552	0.00	0.00	N
ATOM	2172	CA	LEU	A	301	20.948	-0.194	-15.461	0.00	0.00	C
ATOM	2173	C	LEU	A	301	22.430	-0.219	-15.678	0.00	0.00	C
ATOM	2174	O	LEU	A	301	23.175	-0.688	-14.789	0.00	0.00	O
ATOM	2175	CB	LEU	A	301	20.365	-1.619	-15.264	0.00	0.00	C
ATOM	2176	CG	LEU	A	301	20.676	-2.282	-13.893	0.00	0.00	C
ATOM	2177	CD1	LEU	A	301	19.773	-1.730	-12.768	0.00	0.00	C
ATOM	2178	CD2	LEU	A	301	20.517	-3.814	-13.993	0.00	0.00	C
ATOM	2179	N	ARG	A	302	23.018	0.219	-16.817	0.00	0.00	N
ATOM	2180	CA	ARG	A	302	24.434	0.203	-17.061	0.00	0.00	C
ATOM	2181	C	ARG	A	302	24.939	1.503	-17.571	0.00	0.00	C
ATOM	2182	O	ARG	A	302	24.166	2.467	-17.732	0.00	0.00	O
ATOM	2183	CB	ARG	A	302	24.748	-0.906	-18.101	0.00	0.00	C
ATOM	2184	CG	ARG	A	302	24.456	-2.348	-17.625	0.00	0.00	C
ATOM	2185	CD	ARG	A	302	25.022	-3.411	-18.591	0.00	0.00	C
ATOM	2186	NE	ARG	A	302	24.438	-3.234	-19.878	0.00	0.00	N
ATOM	2187	CZ	ARG	A	302	25.001	-3.325	-21.078	0.00	0.00	C
ATOM	2188	NH1	ARG	A	302	26.253	-3.712	-21.283	0.00	0.00	N
ATOM	2189	NH2	ARG	A	302	24.229	-3.036	-22.113	0.00	0.00	N1+
ATOM	2190	N	LYS	A	303	26.247	1.596	-17.911	0.00	0.00	N
ATOM	2191	CA	LYS	A	303	26.915	2.623	-18.668	0.00	0.00	C
ATOM	2192	C	LYS	A	303	27.621	3.617	-17.835	0.00	0.00	C
ATOM	2193	O	LYS	A	303	28.514	4.303	-18.379	0.00	0.00	O
ATOM	2194	CB	LYS	A	303	26.125	3.237	-19.864	0.00	0.00	C
ATOM	2195	CG	LYS	A	303	26.350	2.473	-21.191	0.00	0.00	C
ATOM	2196	CD	LYS	A	303	25.793	1.028	-21.188	0.00	0.00	C
ATOM	2197	CE	LYS	A	303	26.564	0.089	-22.136	0.00	0.00	C
ATOM	2198	NZ	LYS	A	303	27.389	-0.849	-21.364	0.00	0.00	N1+
ATOM	2199	N	LEU	A	304	27.431	3.676	-16.504	0.00	0.00	N
ATOM	2200	CA	LEU	A	304	28.325	4.340	-15.607	0.00	0.00	C
ATOM	2201	C	LEU	A	304	29.588	3.561	-15.505	0.00	0.00	C
ATOM	2202	O	LEU	A	304	30.683	4.119	-15.733	0.00	0.00	O

ATOM	2203	CB	LEU	A	304	27.630	4.552	-14.238	0.00	0.00	C
ATOM	2204	CG	LEU	A	304	26.314	5.380	-14.344	0.00	0.00	C
ATOM	2205	CD1	LEU	A	304	25.058	4.480	-14.400	0.00	0.00	C
ATOM	2206	CD2	LEU	A	304	26.180	6.367	-13.165	0.00	0.00	C
ATOM	2207	N	ILE	A	305	29.556	2.232	-15.254	0.00	0.00	N
ATOM	2208	CA	ILE	A	305	30.689	1.345	-15.298	0.00	0.00	C
ATOM	2209	C	ILE	A	305	31.200	1.209	-16.690	0.00	0.00	C
ATOM	2210	O	ILE	A	305	32.396	1.457	-16.952	0.00	0.00	O
ATOM	2211	CB	ILE	A	305	30.284	-0.047	-14.712	0.00	0.00	C
ATOM	2212	CG1	ILE	A	305	29.695	0.072	-13.276	0.00	0.00	C
ATOM	2213	CG2	ILE	A	305	31.488	-1.026	-14.710	0.00	0.00	C
ATOM	2214	CD1	ILE	A	305	28.897	-1.174	-12.837	0.00	0.00	C
ATOM	2215	N	TRP	A	306	30.354	0.809	-17.667	0.00	0.00	N
ATOM	2216	CA	TRP	A	306	30.622	0.720	-19.074	0.00	0.00	C
ATOM	2217	C	TRP	A	306	31.564	-0.353	-19.499	0.00	0.00	C
ATOM	2218	O	TRP	A	306	32.801	-0.177	-19.488	0.00	0.00	O
ATOM	2219	CB	TRP	A	306	30.991	2.117	-19.644	0.00	0.00	C
ATOM	2220	CG	TRP	A	306	30.652	2.370	-21.062	0.00	0.00	C
ATOM	2221	CD1	TRP	A	306	30.088	1.517	-22.012	0.00	0.00	C
ATOM	2222	CD2	TRP	A	306	30.837	3.585	-21.717	0.00	0.00	C
ATOM	2223	NE1	TRP	A	306	29.915	2.180	-23.170	0.00	0.00	N
ATOM	2224	CE2	TRP	A	306	30.363	3.434	-23.015	0.00	0.00	C
ATOM	2225	CE3	TRP	A	306	31.376	4.805	-21.290	0.00	0.00	C
ATOM	2226	CZ2	TRP	A	306	30.401	4.491	-23.928	0.00	0.00	C
ATOM	2227	CZ3	TRP	A	306	31.427	5.871	-22.201	0.00	0.00	C
ATOM	2228	CH2	TRP	A	306	30.939	5.717	-23.510	0.00	0.00	C
ATOM	2229	N	VAL	A	307	31.071	-1.520	-19.977	0.00	0.00	N
ATOM	2230	CA	VAL	A	307	31.855	-2.575	-20.566	0.00	0.00	C
ATOM	2231	C	VAL	A	307	31.381	-2.833	-21.953	0.00	0.00	C
ATOM	2232	O	VAL	A	307	31.060	-3.974	-22.359	0.00	0.00	O
ATOM	2233	CB	VAL	A	307	31.844	-3.839	-19.651	0.00	0.00	C
ATOM	2234	CG1	VAL	A	307	32.494	-3.554	-18.276	0.00	0.00	C
ATOM	2235	CG2	VAL	A	307	30.434	-4.440	-19.427	0.00	0.00	C
ATOM	2236	N	ARG	A	308	31.230	-1.802	-22.809	0.00	0.00	N
ATOM	2237	CA	ARG	A	308	30.777	-1.913	-24.165	0.00	0.00	C
ATOM	2238	C	ARG	A	308	31.330	-0.787	-24.943	0.00	0.00	C
ATOM	2239	O	ARG	A	308	31.632	0.265	-24.339	0.00	0.00	O
ATOM	2240	CB	ARG	A	308	29.224	-1.902	-24.188	0.00	0.00	C
ATOM	2241	CG	ARG	A	308	28.599	-2.395	-25.518	0.00	0.00	C
ATOM	2242	CD	ARG	A	308	27.050	-2.348	-25.495	0.00	0.00	C
ATOM	2243	NE	ARG	A	308	26.429	-3.607	-25.743	0.00	0.00	N
ATOM	2244	CZ	ARG	A	308	26.530	-4.714	-25.008	0.00	0.00	C
ATOM	2245	NH1	ARG	A	308	27.292	-4.813	-23.926	0.00	0.00	N
ATOM	2246	NH2	ARG	A	308	25.853	-5.782	-25.396	0.00	0.00	N1+
ATOM	2247	N	LYS	A	309	31.467	-0.839	-26.283	0.00	0.00	N
ATOM	2248	CA	LYS	A	309	31.987	0.253	-27.041	0.00	0.00	C
ATOM	2249	C	LYS	A	309	30.908	0.921	-27.801	0.00	0.00	C
ATOM	2250	O	LYS	A	309	30.791	0.775	-29.037	0.00	0.00	O
ATOM	2251	CB	LYS	A	309	33.206	-0.233	-27.865	0.00	0.00	C
ATOM	2252	CG	LYS	A	309	34.123	0.949	-28.265	0.00	0.00	C
ATOM	2253	CD	LYS	A	309	35.510	0.468	-28.742	0.00	0.00	C
ATOM	2254	CE	LYS	A	309	36.459	1.654	-29.005	0.00	0.00	C
ATOM	2255	NZ	LYS	A	309	37.803	1.166	-29.332	0.00	0.00	N1+
ATOM	2256	N	ILE	A	310	30.089	1.750	-27.118	0.00	0.00	N
ATOM	2257	CA	ILE	A	310	29.214	2.718	-27.724	0.00	0.00	C
ATOM	2258	C	ILE	A	310	30.001	3.968	-27.938	0.00	0.00	C
ATOM	2259	O	ILE	A	310	29.546	4.919	-28.610	0.00	0.00	O
ATOM	2260	CB	ILE	A	310	27.953	2.912	-26.818	0.00	0.00	C
ATOM	2261	CG1	ILE	A	310	27.200	1.568	-26.593	0.00	0.00	C
ATOM	2262	CG2	ILE	A	310	26.974	3.974	-27.387	0.00	0.00	C
ATOM	2263	CD1	ILE	A	310	26.159	1.629	-25.455	0.00	0.00	C
ATOM	2264	N	HIS	A	311	31.240	4.063	-27.411	0.00	0.00	N
ATOM	2265	CA	HIS	A	311	32.121	5.181	-27.479	0.00	0.00	C
ATOM	2266	C	HIS	A	311	32.667	5.424	-28.834	0.00	0.00	C
ATOM	2267	O	HIS	A	311	33.084	4.460	-29.518	0.00	0.00	O
ATOM	2268	CB	HIS	A	311	33.259	4.885	-26.469	0.00	0.00	C
ATOM	2269	CG	HIS	A	311	34.175	6.015	-26.254	0.00	0.00	C
ATOM	2270	ND1	HIS	A	311	35.505	5.986	-26.411	0.00	0.00	N
ATOM	2271	CD2	HIS	A	311	33.854	7.300	-25.831	0.00	0.00	C
ATOM	2272	CE1	HIS	A	311	35.995	7.195	-26.104	0.00	0.00	C
ATOM	2273	NE2	HIS	A	311	34.988	8.006	-25.753	0.00	0.00	N
ATOM	2274	N	SER	A	312	32.779	6.695	-29.272	0.00	0.00	N
ATOM	2275	CA	SER	A	312	33.333	7.111	-30.524	0.00	0.00	C
ATOM	2276	C	SER	A	312	34.641	7.801	-30.301	0.00	0.00	C
ATOM	2277	O	SER	A	312	34.671	9.056	-30.325	0.00	0.00	O
ATOM	2278	CB	SER	A	312	32.278	7.998	-31.230	0.00	0.00	C
ATOM	2279	OG	SER	A	312	32.859	8.634	-32.362	0.00	0.00	O

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ATOM	2280	N	PRO	A	313	35.818	7.144	-30.085	0.00	0.00	N
ATOM	2281	CA	PRO	A	313	37.052	7.829	-29.816	0.00	0.00	C
ATOM	2282	C	PRO	A	313	37.566	8.544	-30.968	0.00	0.00	C
ATOM	2283	O	PRO	A	313	37.929	9.705	-30.869	0.00	0.00	O
ATOM	2284	CB	PRO	A	313	38.018	6.714	-29.370	0.00	0.00	C
ATOM	2285	CG	PRO	A	313	37.454	5.448	-30.018	0.00	0.00	C
ATOM	2286	CD	PRO	A	313	35.948	5.722	-30.086	0.00	0.00	C
END											

Alignment of ORs and non-OR GPCR (fasta format)

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>|hOR1A1|/1-309 protein [Homo sapiens]
-----MREN---NQSST---LEFILLGVTGQQEQEDFFYILFLFIYPITLIGNLLIVLAICSDVRLHN
-PMYFLLANLSLVDIFFSSVTIPKMLANHLL----GSKSISFGGCLTQMYFMIALGNTDSYILAAMAYDRAV
AISRPLHYTT--IMSPRSCIWLIAGSWVIGNANALPHTLLTASLSFCG----NQEVANFYCDITPLLKLSCS
DIHFHVKMMYLGVG-IFSVPLLCIIVSYIRVFSTVFQVPST-----KGVLKAFSTCGSHLTV
VSLYYGTVMGTYFRPLTNYS-LKDA-----VITVMYTAVTPMLNSFIYSLNRNMDKAAALRKLFNK
RISS-----
>|hOR1A2|/1-309 olfactory receptor 1A2 [Homo sapiens]
-----MKKE---NQSFN---LDFILLGVTSSQQEQNNVFFVIFLCIYPITLTGNLLIILAICADIRLHN
-PMYFLLANLSLVDIIFSSVTIPKVLANHLL----GSKFISFGGCLMQMYFMIALAKADSYTLAAMAYDRAV
AISCPLHYTT--IMSPRSCILLIAGSWVIGNTSALPHTLLTASLSFCG----NQEVANFYCDIMPLLKLSCS
DVHFNKMMYLGVG-VFSLPLLCIIVSYVQVFSTVFQVPST-----KSLFKAFSTCGSHLTV
VFLYYGTTMGMYFRPLTSYS-PKDA-----VITVMYVAVTPALNPFIYSLRNWDMKAAALQKLFSS
RISS-----
>|hOR1G1|/1-313 protein [Homo sapiens]
-----MEGK---NLTSI---SECFLLGFSQLEEQKPLFGSFLFMYLVTVAGNLLIILVIITDQTQHLT
-PMYFFLANLSLADACFVSTTVPKMLANIQI----QSQAISYSGCLLQLYFFMLFVMLEAFLLAVMAYDCYV
AICHPLHYIL--IMSPGLCIFLVSASWIMNALHSLHLLTLLMNSLSFCA----NHEIPHFFCDINPLLSLST
DPFTNELVIFITGGLTGCLICVLCLIISYTNVFSTILKIPSA-----QGKRKAFSTCSSHLSV
VSLFFGTSFCVDFSSPSTHSAQKDT-----VASVMYTVVTPMLNPFIYSLRNQEIKSLRKLIVW
RKIHSP-----
>|hOR2AG1|/1-316/1-316 olfactory receptor 2AG1 [Homo sapiens]
-----MELW---NFTLG---SGFILVGILNDSGPELLCATITILYLLALISNGLLLAITMEARLHM
-PMYLLLGQLSLMDLLFTSVVTPKALADFLR----RENTISFGGCALQMFALATMGGAEDLLAFMAYDRYV
AICHPLTYMT--LMSSRACWLMVATSWILASLSALIYTVYTMHYPFGR----AQEIRHLLCEIPHLLKVACA
DTSRYELMVYVMGVTFILPSLAAILASYTQILLTVLHMPNSN-----EGRKKALVTCSSHLTV
VGMFYGAATFMYVLPSSFHSTRQDN-----IISVFYTIIVTPALNPLIYSLRNKEVMRALRRVLGK
YMLPAHSTL-----
>|mOR-I7|/1-327 olfactory receptor I7 [Mus musculus]
-----MERR---NHTGR---VSEFVLLGFPAPAPLRALLFFLSLLAYVLVLVTENILIIITAIRNHPTLHK
-PMYFFLANMSFLEIWYVTVTIPKMLAGFIGSEENHGQLISFEACMTQLYFFLGLGCTECVLLAVMAYDRYV
AICHPLHYPV--IVSSRLCVQMAAGSWAGGFGISMVKVFLISRLSYCG----PNTINHFFCDVSPLLNLST
DMSTAELTDFILAIFILLGPLSVTGASYMAITGAVMRIPSA-----AGRHKAFSTCASHLTV
VIIFYAASIFIYARPKALSAFDTNK-----LVSVLYAVIVPLLNPIIYCLRNQEVKKALRRTLHL
AQGDANTKKSSRDG-----
>|rOR-i7|/1-327 Olfactory receptor 226 OS=Rattus norvegicus GN=Olr226 PE=2
SV=2
-----MERRNHS-----GRVSEFVLLGFPAPAPLRVLLFFLSLLAYVLVLVTENMLIIIAIRNHPTLHK
-PMYFFLANMSFLEIWYVTVTIPKMLAGFIGSKENHGQLISFEACMTQLYFFLGLGCTECVLLAVMAYDRYV
AICHPLHYPV--IVSSRLCVQMAAGSWAGGFGISMVKVFLISRLSYCG----PNTINHFFCDVSPLLNLST
DMSTAELTDFVLAIFILLGPLSVTGASYMAITGAVMRIPSA-----AGRHKAFSTCASHLTV
VIIFYAASIFIYARPKALSAFDTNK-----LVSVLYAVIVPLFNPIIYCLRNQDVKRALRRTLHL
AQDQEANTNKGSKNG-----
>mOR-EG/1-313 Olfactory receptor OS=Mus musculus GN=Olfr73 PE=2 SV=1
-----MTLSGDN-----HSGAVFTLLGFSDYPELTIPFLIFLTIYSITVVGNIIMIVIRINPKLHI
-PMYFFLSHLSFVDFCYSSIVAPKMLVNLVTM---NRGISFVGCLVQFFFFCTFVVVTESFLLGVMAVDRFV
AIRNPLLYTVAMSQRCLCAMLVLGSAWGVCSLILTCALNLSFYGFN-----MINHFFCFESSLLSLRS
DTSVSQLLLFVFATFNEISTLLIILLSYVLIVVTILKMKSA-----SGRRKAFSTCASHLTA
ITIFHGHTILFLYCVPSKNSRHTVK-----VASVFYTVVIPMLNPLIYSLRNKDVKDVTVKKIIGT
KVYSS-----
>mOR42-3/1-334 olfactory receptor 544 [Mus musculus]
-----MSGWSNG---TYNESYTSFLLMGFPGMQEARALLVLPFLSLYLVLVILFTNALVIHTVASQRSLSHQ
-PMYLLIALLLAVNICAATTVPVPMFLFSFSTR----FNRISLPRCLGQMFCIYFLIVFDCNILLVMALDRYV
AICYPLRYPE--IVTGQLLAGLVVLAVTRSTCIVAPVVVLASRVFRFCR----SDVIRHFACEHMAIMKLSCG
DISLNKTVGLTVRIFNRVLDMLLLGASYSRIIHAARFISS-----GGARSKALNTCGSHLLV

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IFTVYSSTMSSSIVYRVARTASQDV-----HNLLSAFYLLLPCLVNPPIYGARTKEIRQHLVALFQR
 TQQQVFTEKPSLPSNRELPG----
 >mOR244-3/1-308 Olfactory receptor OS=Mus musculus GN=Olfr1509 PE=2 SV=1
 -----MGALNQT-----RVTEFIFLGLTDNWVLEILFFVPFTVTYMLTLLGNFLIVVTIVFTPRLHN
 -PMYFFLSNLSFIDICHSSVTVPKMLEGLLE---RKTISFDNCIAQLFFLHLFACSEIFLLTIMAYDRYV
 AICIPLHYSN--VMNMKVCVQLVFALWLGGTIHSVLVQTFILTIRLPYCG----PNIIDSYFCDVPPVIKLACT
 DTYLTGILIVSNSGTISLVCFLALVTSYTVILFSLRKQSA-----EGRRKALSTCSAHFMV
 VALFFGPCIFLYTRPDSSFSIDKVV-----SVFYTVVTPLLNPLIYTLRNEEVKTAMKHLRQR
 RICS-----
 >|b1U19|Rhodo|/1-348 Crystal Structure Of Bovine Rhodopsin At 2.2 Angstroms
 Resolution
 MNGTEGPNFYVPFSNKTG--VVRSPFEAPQYYLAEPWQFSMLAAYMFLIMLGFPINFLTLYVTVQHKKLRT
 -PLNYILLNLAVADLFMVFGGFTTTLTSLHG---YFVFGPTGCNLEGFFATLGGEIALWSLVVLAIERVY
 VVCKPMSNFR---FGENHAIMGVAFTWVMALACAAPPLVGWSRYIPEGMQCS-----CGIDYY---TPH
 EETNNESFVIYMFVVFHFIPLIVIFFCYGQLVFTVKEAAAQQQ-----ESATTQKAEKEVTRMVIIMVIA
 FLICWLPHYAGVAFYIFTHQGSDFGP-----IFMTIPAFFAKTSAVYNPVIYIMMNKQFRNCMVTTLCC
 GKNPLGDDEASTTVSKTETSQVAPA
 >|h2RH1|beta2|A/29-333 263-342 , Human B2-Adrenergic G Protein- Coupled
 Receptor.
 -----DEVVVVGMGIVMSLIVLAIVFGNVLVITAIKFERLQT
 -VTNYFITSLACADLVMLGAVVPFGAAHILMK---MWTFGNFWCFWTSIDVLCVTASIE TLCVIAVDRYF
 AITSPFKYQS--LLTKNKARVILMVWIVSGLTSFLPIQMHWRATHQEAI-NCYAEETCCDFFT-----
 ---NQAYAIASSIVSFYVPLVIMVFVYSRVFQEAQRQLKF-----CLKEHKALKTLGIIMGT
 FTLCWLPPFFIVNIVH-VIQDNLIRK-----EVYILLNWIGYVNSGFNPLIYCRS-PDFRIAFQELLCL
 RRSSLKAYGNGYSSNGNTGEQSG--
 >|h2YDV|a2A/1-325 adenosine|
 -----MPIMGSSVYITVELAIAVLAILGNVLVCWAVWLNSNLQN
 -VTNYFVVSAAAADILVGVLAIPFAIAISTG-----FCAACHGCLFIACFVLVLTASSIFSLLAIAIDRYI
 AIRIPLRYNG--LVTGTRAKGIIAICWVLSFAIGLTPMLGWNNCGQPKEGK-A---HSQCGC-EGQVACLFE
 DVVPMNYMVYFNFFACVLVPLLLMLGVYLRIFLAARRQLKQMESQPLPGERARSTLQKEVHAAKSLAII VGL
 FALCWLPLHIINCFTFFCPDCSHAP-----LWLMLAIVLSHTNSVVPFIYAYRIREFRQTFRKIIRS
 HVLROQEPFKAAAAENLYFQ-----
 >|h2LNL|CXCR1|/29-324
 -----PCMLETET-LNKYVVIIAYALVFLLSLLGNSLVMLVILYSRVGRS
 -VTDVYLLNLALADLLF-ALTLPIWAASKVNG-----WIFGTFLCKVVSLLKEVNFYSGILLACISVDRLY
 AIVHATRTLTL--QKRHLVK-FVCLGCWGLSMNLSLPFFLFRQAYHPNNSSP-V-----CYEVLGND---T
 AKWRMVLRLPHTFGFI-VPLFVMLFCYGTTLRTLFKAHMG-----QKHRAMRVIFAVVLI
 FLLCWLPPYNLVLLADTLMRTQVIQESCERRNNIGRALDATEILGFLHSCLNPPIYAFIQNFRHG--FLKIL
 AMHG-----